

GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 15, 2001, 18:43:44 ; Search time 236.11 Seconds
(without alignments)
4569.769 Million cell updates/sec

Title: US-09-180-798-1

Perfect score: 6695

Sequence: 1 tctagatgcgaatcgcgc.....aattatattttatgtt 6695

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 280836 segs, 80580151 residues

Total number of hits satisfying chosen parameters: 561672

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : Issued_Patents_NA:*
1: /cgn2_6/ptodata/1/ina/5A.COMB.seq:*
2: /cgn2_6/ptodata/1/ina/5B.COMB.seq:*
3: /cgn2_6/ptodata/1/ina/5.COMB.seq:*
4: /cgn2_6/ptodata/1/ina/PCTUS.COMB.seq:*
5: /cgn2_6/ptodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	109.6	1.6	1554	2	US-08-587-680A-24
2	61.6	0.9	5733	2	US-08-473-553A-1
3	61.2	0.9	2571	1	US-07-717-331F-9
4	61.2	0.9	2833	1	US-07-717-331F-1
5	61	0.9	2749	1	US-07-717-331F-4
6	60.6	0.9	2749	1	US-08-265-628-1
7	59.4	0.9	7218	1	US-08-232-463-14
8	55.6	0.8	19124	2	US-08-487-826B-13
9	54	0.8	4517	4	PCT-US93-06251-83
10	53.8	0.8	966	1	US-08-447-185-2
11	50.8	0.8	2443	1	US-08-447-185-3
12	50.8	0.8	2647	4	PCT-US93-06251-77
13	50.8	0.8	2890	4	US-07-928-464-1
14	50.8	0.8	2890	4	PCT-US93-07347-1
15	50.8	0.8	3033	1	US-08-003-311B-1
16	50.8	0.8	3033	1	US-08-261-432-1
17	50.4	0.8	1203	1	US-08-602-010A-7
18	50.4	0.8	1203	1	US-08-680-726A-7
19	50.4	0.8	1203	3	US-09-092-409-7
20	50.4	0.8	5495	1	US-08-602-010A-1
21	50.4	0.8	5495	1	US-08-602-010A-2
22	50.4	0.8	5495	1	US-08-680-726A-1
23	50.4	0.8	5495	1	US-08-680-726A-2
24	50.4	0.8	5495	3	US-09-092-409-1
25	50.4	0.8	5495	3	US-09-092-409-2
26	50.4	0.8	10592	1	US-08-680-726A-51
27	50.4	0.8	10592	1	US-08-680-726A-52
28	50.4	0.8	10592	3	US-09-092-409-51

c	29	50.4	0.8	10592	3	US-09-092-409-52	Sequence 52, Appl
	30	48.2	0.7	6343	3	US-08-581-148C-30	Sequence 30, Appl
	31	47.6	0.7	1804	1	US-08-306-691B-40	Sequence 40, Appl
	32	47.6	0.7	1804	4	PCT-US93-06251-82	Sequence 82, Appl
	33	47	0.7	1602	1	US-07-820-011A-1	Sequence 1, Appl
	34	47	0.7	1602	4	PCT-US93-00445-1	Sequence 1, Appl
	35	46.6	0.7	5852	1	US-07-867-106-2	Sequence 2, Appl
c	36	46.6	0.7	5852	1	US-07-867-106-2	Sequence 2, Appl
	37	46.2	0.7	6768	1	US-08-107-755A-1	Sequence 1, Appl
	38	46.2	0.7	8457	1	US-07-991-867B-1	Sequence 1, Appl
	39	46.2	0.7	8457	2	US-08-544-332-1	Sequence 1, Appl
c	40	45.6	0.7	2447	2	US-09-014-969-14	Sequence 14, Appl
c	41	45.4	0.7	665	2	US-08-883-795A-36	Sequence 36, Appl
c	42	44.4	0.7	6243	2	US-09-056-075-1	Sequence 1, Appl
	43	44	0.7	1574	3	US-09-173-581-12	Sequence 12, Appl
	44	44	0.7	3590	1	US-08-587-889-1	Sequence 1, Appl
	45	44	0.7	3590	4	PCT-US96-09193-1	Sequence 1, Appl

ALIGNMENTS

RESULT 1
US-08-587-680A-24
; Sequence 24, Application US/08587680A
; Patent No. 5977434
; GENERAL INFORMATION:
; APPLICANT: Ronald, Pamela C.
; APPLICANT: Wang, Guo-Liang
; APPLICANT: Song, Wen-Yuang
; APPLICANT: Szabo, Veronique
; TITLE OF INVENTION: Procedures and Materials for Confering
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/587,680A
; FILING DATE: 17-JAN-1996
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/373,375
; FILING DATE: 17-JAN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/475,891
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/004,645
; FILING DATE: 29-SEP-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/567,375
; FILING DATE: 04-DEC-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Bastian, Kevin L.
; REGISTRATION NUMBER: 34,774
; REFERENCE/DOCKET NUMBER: 023070-0589400S
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 24:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1554 base pairs
; TYPE: nucleic acid

Db 2006 AAGATATGACTCCAAAATTTCAGACTTTCGAAATGGCTAGAGATCTTTGGACGGAGATGAGA 2065
Qy 6009 ccca---tgtaagcagctcttaaggggtaccattggcagacatgctccagatcctct 6065
Db 2066 CGGAAGCTGACGACGAGAGGCTGTCGGAACCTATGGCTACATGCTCTCCAGAAATATGCGA 2125
Qy 6066 cgaactggaagatcagagaccgaatgctctgttattatgagataatgctcctagagc 6125
Db 2126 TGAACGGACATTTCTCAATGAAAGTCAGATGTTGAGTTTGGGCTCTGCTTTGAAA 2185
Qy 6126 tcaatctgagacagag 6142
Db 2186 TTATAGTGCAGAGAG 2202

RESULT 6
US-08-265-628-1
; Sequence 1, Application US/08265628
; Patent No. 5821094
; GENERAL INFORMATION:
; APPLICANT: Rothstein, Steven J.
; APPLICANT: Goring, Daphne
; TITLE OF INVENTION: S-LOCUS RECEPTOR KINASE GENE IN A
; TITLE OF INVENTION: SELF-INCOMPATIBLE BRASSICA NAPUS LINE
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McAndrews, Held & Malloy, Ltd.
; STREET: 500 W. Madison St. Suite 3400
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60661
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/265,628
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/959,945
; FILING DATE:
; APPLICATION NUMBER: US 07/847,564
; FILING DATE: 03-MAR-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Pochopien Ph.D., Donald J.
; REGISTRATION NUMBER: 32,167
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-707-8889
; TELEFAX: 312-707-9155
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2749 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHEetical: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Brassica napus
; STRAIN: olerifera
; INDIVIDUAL ISOLATE: W1
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: S-locus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..2574
; PUBLICATION INFORMATION:
; AUTHORS: GORING, DAPHNE

; AUTHORS: ROTHSTEIN, STEVEN J.
; TITLE: THE S-LOCUS RECEPTOR KINASE GENE IN A
; TITLE: SELF-INCOMPATIBLE BRASSICA NAPUS LINE ENCODES A
; TITLE: FUNCTIONAL SERINE/THREONINE KINASE
; RELEVANT RESIDUES IN SEQ ID NO: 1: FROM 1 TO 2749
; US-08-265-628-1

Query Match 0.9%; Score 60.6; DB 1; Length 2749;
Best Local Similarity 52.9%; Pred. No. 0.00011;
Matches 154; Conservative 0; Mismatches 134; Indels 3; Gaps 1;

Qy 5047 taglaccatccttggaagagtgatgttgtaagtgatataagggagccttgatag 5106
Db 1593 TTGTACAAACTCGACACAGGTGCTTTCGATTTTACAGAGGATGATTTGATG 1652
Qy 5107 ctcaattgtagcagtttaaaaggcttaaaagcaaacacagctgagcagtc 5166
Db 1653 GCAAGAAATTCGGGTAAAGAGCTATCAAAACGCTTCGTAAGGACATGCT---GAGTT 1709
Qy 5167 tcaaacagaaagtgaatgattagatgagctgctgcaatctctgctcagtg 5226
Db 1710 TATGAATGAGCTGAGATTGATCGCGAGCTTCAGCATATAAACCTGTTCGAATTC 1769
Qy 5227 ttctcagatcacccacacagagcgctcttgatataatcagatgagcagagtg 5286
Db 1770 CTGTTCATTTGAGCGACAGACAGAGATGCTGATATGAGTATTTAAGAAATTTAAGCC 1829
Qy 5287 tgcctatgtttaagagatcctcaattacaattacataactgagaa 5337
Db 1830 CGATTCTTATCTCTTCGAAATTAACGAAGCTCTACTTAATTTGAACGA 1880

RESULT 7
US-08-232-463-14
; Sequence 14, Application US/08232463
; Patent No. 5670367
; GENERAL INFORMATION:
; APPLICANT: DORNER, F.
; APPLICANT: SCHEIFLINGER, F.
; TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: 1800 Diagonal Road, Suite 500
; CITY: Alexandria
; STATE: VA
; COUNTRY: USA
; ZIP: 22313-0299
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/232,463
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/935,313
; FILING DATE:
; APPLICATION NUMBER: EP 91 114 300.6
; FILING DATE: 26-AUG-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 30472/114 IMMU
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)836-9300
; TELEFAX: (703)683-4109
; TELEX: 899149
; INFORMATION FOR SEQ ID NO: 14:

Db 15504 TTTTATTTTATTTAATAATTTTATTTTAA 15473

```
RESULT 9
PCT-US93-06251-83
; Sequence 83, Application PC/TUS9306251
; GENERAL INFORMATION:
; APPLICANT: Wickstrom, Eric and Rife, Jason P.
; TITLE OF INVENTION: Trivalent Synthesis of Oligonucleotides Containing
; TITLE OF INVENTION: Stereospecific Alkylphosphonates and Arylphosphonates
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
; STREET: 400 Garden City Plaza
; CITY: Garden City
; STATE: NY
; COUNTRY: USA
; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/06251
; FILING DATE: 19930630
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Digilio, Frank S.
; REGISTRATION NUMBER: 31,346
; REFERENCE/DOCKET NUMBER: 8586
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 516-742-4343
; TELEFAX: 516-742-4366
; TELEX: 230 901 SANS UR
; INFORMATION FOR SEQ ID NO: 83:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4517 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; PCT-US93-06251-83
```

Query Match 0.8%; Score 54; DB 4; Length 4517;
Best Local Similarity 52.2%; Pred. No. 0.004;
Matches 120; Conservative 0; Mismatches 110; Indels 0; Gaps 0;

```
QY 5903 aaagatcaccacgcgagtgtaaaagctgcaaatatattatgtgagaagaatttgagct 5962
    || || || || || || || || || || || || || || || || || || || || || ||
Db 1378 AACATATTCACGAGATCTTCGGGCTGCTATATCTCTGTAGAGAGAAATCTTGTC 1437

QY 5963 gctgtaggtgacttctgtggttagctagctcattgataaaggataccatgttaagct 6022
    || || || || || || || || || || || || || || || || || || || || || ||
Db 1438 AAAATAGACACTTGTGTTAGCAAGCTTAATTGAAAGACAATGACATGACAAAGCAAA 1497

QY 6023 gctgtaggggtaccattggcgcacatagctcccgagctactctctgacttggaagctatca 6082
    || || || || || || || || || || || || || || || || || || || || || ||
Db 1498 GGTCAAAATTTCCAAATCAAAATGACAGCTCTGAAGCTGCATGTAATGTCGGTTTACA 1557

QY 6083 gagaagaccgagctctctgtgtatgagataatgctcctagagctcattac 6132
    || || || || || || || || || || || || || || || || || || || || || ||
Db 1558 ATAAAGTCTGATGCTGCTGATTTGGAAATCTCTGCAACAGACAGACTAGTAC 1607
```

RESULT 10
US-08-447-185-2
; Sequence 2, Application US/08447185
; Patent No. 5648599
; GENERAL INFORMATION:
; APPLICANT: Tanksley, Steven D.
; APPLICANT: Martin, Gregory B.

```
; TITLE OF INVENTION: GENE CONFERRING DISEASE RESISTANCE
; TITLE OF INVENTION: TO PLANTS BY RESPONDING TO AN AVIRULENCE GENE IN PLANT PATH
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Michael L. Goldman
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/447,185
; FILING DATE:
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/111,078
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman Mr., Michael L.
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716)263-1000
; TELEFAX: (716)263-1600
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 966 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: unknown
; MOLECULE TYPE: DNA (genomic)
; US-08-447-185-2
```

Query Match 0.8%; Score 53.8; DB 1; Length 966;
Best Local Similarity 53.9%; Pred. No. 0.0026;
Matches 159; Conservative 0; Mismatches 127; Indels 9; Gaps 2;

```
QY 5010 ttctctcgagaaatgcaagtcgaagcgaatcttagtacc-----tccttgaa 5063
    || || || || || || || || || || || || || || || || || || || || || ||
Db 86 TTCCTTTAGTAGATTGGAAGGAACTAATAATTTGATCACAAGTTTAAATTGGAC 145

QY 5064 gaagtgattgttaagtggtataaaggacgcttgctgtaagctcactgtgaagtta 5123
    || || || || || || || || || || || || || || || || || || || || || ||
Db 146 ATGGTGCTTTGGGAGGTTTACAAAGGCTTTTGGCTGATGAGAGCAAGTGCCCTGA 205

QY 5124 aaaggtctaaagaagaacacacccagtggtgagctgcagttccaacagaagtggaa 5183
    || || || || || || || || || || || || || || || || || || || || || ||
Db 206 AAAGGCGTACCTGTGAGTCTCTCAACAAGTATTGAAG--AGTTCCAAACAGAAATTTGACA 262

QY 5184 tgattagcagtgctgctacgcgaacatctctgcgtcactgagtggttctcagtcagcacta 5243
    || || || || || || || || || || || || || || || || || || || || || ||
Db 263 CTCCTCATTTTTCACAGACATCCGCACTGCTGTTTCATTGATGAGATTCTGTGTAAGAA 322

QY 5244 ccgagcggtctcttgatatacctaatagctgaagtggttcgctcatgttt 5298
    || || || || || || || || || || || || || || || || || || || || || ||
Db 323 ATGAGATGATTCTTAATTAATATACATGAGAAATGGAACTCAAGACATTTT 377
```

RESULT 11
US-08-447-185-3
; Sequence 3, Application US/08447185
; Patent No. 5648599
; GENERAL INFORMATION:
; APPLICANT: Tanksley, Steven D.
; APPLICANT: Martin, Gregory B.
; TITLE OF INVENTION: GENE CONFERRING DISEASE RESISTANCE
; TITLE OF INVENTION: TO PLANTS BY RESPONDING TO AN AVIRULENCE GENE IN PLANT PATH
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:

```

: ADDRESSEE: Michael L. Goldman
: STREET: Clinton Square, P.O. Box 1051
: CITY: Rochester
: STATE: New York
: COUNTRY: U.S.A.
: ZIP: 14603
:
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.25
:
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/447,185
: FILING DATE:
: CLASSIFICATION: 800
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US/08/111,078
: FILING DATE:
: ATTORNEY/AGENT INFORMATION:
: NAME: Goldman Mr., Michael L.
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (716)263-1000
: TELEFAX: (716)-263-1600
: INFORMATION FOR SEQ ID NO: 3:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 2443 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: double
: TOPOLOGY: unknown
: MOLECULE TYPE: DNA (genomic)
: US-08-447-185-3

```

```

Query Match          0.8%; Score 53.8; DB 1; Length 2443;
Best Local Similarity 53.9%; Pred. No. 0.0036;
Matches 159; Conservative 0; Mismatches 127; Indels 9; Gaps 2;

```

```

QY 5010 ttctctcgagaaattcgcaagtcgaagatcttctgaagca-----tcccttgaa 5063
    || || || || || || || || || || || || || || || || || || || || ||
DB 149 TTCTCTTAGTAGATTGGAGGAGCACTAATATTGTCACAGTTTAAATTGAC 208
QY 5064 gaagtggaattgtaagtgatataaggaagccttctgataagctcattgtgacagta 5123
    || || || || || || || || || || || || || || || || || || || || ||
DB 209 ATGCTGCTTTGGAGGAGTTTACAAAGGCTTTGCGTGAAGGAGCAAGGTGGCCCTGA 268
QY 5124 aaaggtctaaagaagacgcaaccagtgagcagctgcagttccaagcaagtgga 5183
    || || || || || || || || || || || || || || || || || || || || ||
DB 269 AAAGCGCTACACTGAGTCTCACAAGGATTTGAAG--AGTTGCAAAACAGAAATTGAGA 325
QY 5184 tgattagcatgctgtgcatgaatctctgctgaagcttctctgaagcttctgcatgacaccta 5243
    || || || || || || || || || || || || || || || || || || || || ||
DB 326 CTCCTCATATTGGACGACATCCGATGTGTTTCATTGATGAGATTTGTGATGAAAGAA 385
QY 5244 ccgagcgagctctgtatataccatcacatgagctaaatggaagtgctgcatagttt 5298
    || || || || || || || || || || || || || || || || || || || || ||
DB 386 ATGAGATGATTCATTAATTATAAATACATGGAATGGAGAACCTCAAGAGACATTT 440

```

```

RESULT 12
PCT-US93-06251-77
: Sequence 77, Application PC/TUS9306251
: GENERAL INFORMATION:
: APPLICANT: Wickstrom, Eric and Rife, Jason P.
: TITLE OF INVENTION: Trivalent Synthesis of Oligonucleotides Containing
: TITLE OF INVENTION: Stereospecific Alkylphosphonates and Arylphosphonates
: NUMBER OF SEQUENCES: 93
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
: STREET: 400 Garden City Plaza
: CITY: Garden City
: STATE: NY
: COUNTRY: USA
: ZIP: 11530

```

```

: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.25
:
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: PCT/US93/06251
: FILING DATE: 19930630
: CLASSIFICATION:
: ATTORNEY/AGENT INFORMATION:
: NAME: Digiglio, Frank S.
: REGISTRATION NUMBER: 31,346
: REFERENCE/DOCKET NUMBER: 8586
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 516-742-4343
: TELEFAX: 516-742-4366
: TELEX: 230 901 SANS UR
: INFORMATION FOR SEQ ID NO: 77:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 2647 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: double
: TOPOLOGY: linear
: MOLECULE TYPE: DNA (genomic)
: PCT-US93-06251-77

```

```

Query Match          0.8%; Score 50.8; DB 4; Length 2647;
Best Local Similarity 51.3%; Pred. No. 0.018;
Matches 118; Conservative 0; Mismatches 112; Indels 0; Gaps 0;

```

```

QY 5903 aagattatccatcgcgaatgaaagctgcaaatatatatttggaagaaatttgaggcl 5962
    || || || || || || || || || || || || || || || || || || || || ||
DB 1732 AATTATATCCATAGAGATGTGCGATGAGCAACATTTCTAGTGGGAATGGACTATATGC 1791
QY 5963 gtgtgagtgatttggttgatagctagctcatgattacaagaatcacccatgttcagact 6022
    || || || || || || || || || || || || || || || || || || || || ||
DB 1792 AAGATTGCGACTTGCGATTGGCCGATTTGATGAGAACAAATGATACACAGCAAGACAA 1851
QY 6023 gctgtgaagggtgtaacatgtggcacatagctcccgagtlaccttgactggaagtcacaa 6082
    || || || || || || || || || || || || || || || || || || || || ||
DB 1852 GGTGCAAACTTCCTCATCAATGAGGAGCGCCCGGAGGAGCCCTGTACGGGAGTTCCACA 1911
QY 6083 gagaagaccgagtgcttggttgataggaataagctccctagagctcatatcc 6132
    || || || || || || || || || || || || || || || || || || || || ||
DB 1912 ATCAAGCTGAGCGTGTGCTTTTGGAATCTTACTACAGAGCTGTGCAC 1961

```

```

RESULT 13
US-07-928-464-1
: Sequence 1, Application US/07928464
: Patent No. 5367065
: GENERAL INFORMATION:
: APPLICANT: Ecker, Joseph R.
: APPLICANT: Kiebert, Joseph J.
: TITLE OF INVENTION: Constitutive Triple Response Gene and
: TITLE OF INVENTION: Mutations
: NUMBER OF SEQUENCES: 6
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz and
: ADDRESSER: No. 5367065ris
: STREET: One Liberty Place - 46th Floor
: CITY: Philadelphia
: STATE: PA
: COUNTRY: U.S.A.
: ZIP: 19103
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/07/928,464

```

FILED DATE: 19920810
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Miller, Suzanne E.
REGISTRATION NUMBER: 32,279
REFERENCE/DOCKET NUMBER: UPN-1086
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2890 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 118..2583
US-07-928-464-1

Query Match 0.8%; Score 50.8; DB 1; Length 2890;
Best Local Similarity 52.8%; Pred. No. 0.018;
Matches 134; Conservative 0; Mismatches 117; Indels 3; Gaps 1;

Qy 5879 aaatgcatgaccatgtgtatcccaagatataccatcgcgagtgaagaagctgcaata 5938
Db 2104 AATTATCTTCACATCGCAATCGCAATCTCCATTTGTCATAGAGATCTAAATCTCCAACTTA 2163
Qy 5939 ttattgacgaagaatttgaagctgtgttaagtgatttgggttagctgaagctcatgat 5998
Db 2164 TTGGTTGACAAAAAATAATACAGTCAGAGTTTGATTTTGCTCTCGCCATGTGAAGGCC 2223
Qy 5999 tacaagataccatgttgaagctgtgttaagtgatttgggttagctgaagctcatgat 6058
Db 2224 AGCAGCTTT---CTTTCCTGCAAGTCAGCAGCTGGAACCCCGAGTGATGCGACACGAA 2280
Qy 6059 taccctcgactggaagatcacaagaagacagatgcttgggttagtgaataatgctc 6118
Db 2281 GTCCGCGAGATGACCCGCTCTAATGAAGATCAGATGTGTACAGCTTCGGGGTCAATCTTG 2340
Qy 6119 ctgaagctcatatc 6132
Db 2341 TGGAGCTTGCTAC 2354

RESULT 14
PCT-US93-07347-1
Sequence 1, Application PC/TUS9307347
GENERAL INFORMATION:
APPLICANT: Ecker, Joseph R.
APPLICANT: Kiebert, Joseph J.
TITLE OF INVENTION: Constitutive Triple Response Gene and
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz and
STREET: One Liberty Place - 46th Floor
CITY: Philadelphia
STATE: PA
COUNTRY: U.S.A.
ZIP: 19103
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/07347
FILING DATE: 19930805
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:

NAME: Miller, Suzanne E.
REGISTRATION NUMBER: 32,279
REFERENCE/DOCKET NUMBER: UPN-1086
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2890 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 118..2583
PCT-US93-07347-1

Query Match 0.8%; Score 50.8; DB 4; Length 2890;
Best Local Similarity 52.8%; Pred. No. 0.018;
Matches 134; Conservative 0; Mismatches 117; Indels 3; Gaps 1;

Qy 5879 aaatgcatgaccatgtgtatcccaagatataccatcgcgagtgaagaagctgcaata 5938
Db 2104 AATTATCTTCACATCGCAATCGCAATCTCCATTTGTCATAGAGATCTAAATCTCCAACTTA 2163
Qy 5939 ttattgacgaagaatttgaagctgtgttaagtgatttgggttagctgaagctcatgat 5998
Db 2164 TTGGTTGACAAAAAATAATACAGTCAGAGTTTGATTTTGCTCTCGCCATGTGAAGGCC 2223
Qy 5999 tacaagataccatgttgaagctgtgttaagtgatttgggttagctgaagctcatgat 6058
Db 2224 AGCAGCTTT---CTTTCCTGCAAGTCAGCAGCTGGAACCCCGAGTGATGCGACACGAA 2280
Qy 6059 taccctcgactggaagatcacaagaagacagatgcttgggttagtgaataatgctc 6118
Db 2281 GTCCGCGAGATGACCCGCTCTAATGAAGATCAGATGTGTACAGCTTCGGGGTCAATCTTG 2340
Qy 6119 ctgaagctcatatc 6132
Db 2341 TGGAGCTTGCTAC 2354

RESULT 15
US-08-003-311B-1
Sequence 1, Application US/08003311B
Patent No. 544166
GENERAL INFORMATION:
APPLICANT: Ecker, Joseph R.
APPLICANT: Kiebert, Joseph J.
TITLE OF INVENTION: Constitutive Triple Response Gene
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz and
STREET: One Liberty Place - 46th Floor
CITY: Philadelphia
STATE: PA
COUNTRY: U.S.A.
ZIP: 19103
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/003,311B
FILING DATE: January 12, 1993
CLASSIFICATION: 800
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 07/928,464
FILING DATE: August 10, 1992


```

: ATTORNEY/AGENT INFORMATION:
: NAME: Lori Y. Beardsell
: REGISTRATION NUMBER: 34,293
: REFERENCE/DOCKET NUMBER: UPN-1108
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 215-568-3100
: TELEFAX: 215-568-3439
: INFORMATION FOR SRO ID NO: 1:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 3033 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: cDNA
: FEATURE:
: NAME/KEY: CDS
: LOCATION: 118..2583
: US-08-003-311B-1

```

```

Query Match          0.84; Score 50.8; DB 1; Length 3033;
Best Local Similarity 52.88; Pred. No. 0.018;
Matches 134; Conservative 0; Mismatches 117; Indels 3; Gaps 1;

```

```

QY 5879 aaattgcattgacatgtgtatccccaagattatccatcgcgattgaagaactgcgaatata 5938
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 2104 AATTATCTTCACAAATCGCAATCTCCAAATTTGTCATGAGATCTAAATCTCCAAACTTA 2163
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 5939 ttattgacgaagaatttgagctgtctgtagtgatttggttagctagctcattgat 5998
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 2164 TTGGTTGACAAAATAATATACAGTCAGGTTTGTGATTTTGTCTCTCGCATTTGAAGGCC 2223
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 5999 tacgaagataccatglttagactgtctgtaagggtacacattgggcacatagctccgag 6058
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 2224 AGCAAGTTT--CTTCTCTGAGTCAGACGCTGGAACCCCGAGTGGATGCCACAGAA 2280
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 6059 tacctctgcactgaaagtcacagagaagacagatgcttcttggtttaggataatgctc 6118
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 2281 GTCCTGCGAGATGAGCCGTCTAATGAAGAAAGTCAGATGTGTACAGCTTCGGGGTCATCTTG 2340
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 6119 ctagagctcattac 6132
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 2341 TGGAGAGCTTGCTAC 2354
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

```

Search completed: January 15, 2001, 20:41:25
 Job time: 7061 sec

GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 15, 2001, 20:41:25 ; Search time 236.11 Seconds
(without alignments)
1238.855 Million cell updates/sec

Title: US-09-180-798-2
Perfect score: 1815
Sequence: 1 gacaaatccatgaatatat.....ttaaaaaaaaaaaaaaaaaa 1815

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 280836 seqs, 80580151 residues

Total number of hits satisfying chosen parameters: 561672

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NN:*
1: /cgn2_6/prodata/1/ina/5A.COMB.seq:*
2: /cgn2_6/prodata/1/ina/5B.COMB.seq:*
3: /cgn2_6/prodata/1/ina/6.COMB.seq:*
4: /cgn2_6/prodata/1/ina/PCTUS.COMB.seq:*
5: /cgn2_6/prodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	140	7.7	1554	2	US-08-587-680A-24
2	117	6.4	2571	1	US-07-717-331F-9
3	117	6.4	2833	1	US-07-717-331F-1
4	110.4	6.1	2749	1	US-08-265-628-1
5	99.6	5.5	966	1	US-08-447-185-2
6	99.6	5.5	2443	1	US-08-447-185-3
7	92	5.1	2749	1	US-07-717-331F-4
8	87.6	4.8	5733	2	US-08-473-553A-1
9	58.6	3.2	3921	2	US-08-567-375-3
10	58.6	3.2	5992	2	US-08-587-680A-3
11	57.2	3.2	4517	4	PCT-US93-06251-83
12	57.2	3.0	2075	1	US-08-238-163-3
13	54.8	3.0	6256	2	US-08-475-891A-1
14	53.8	3.0	6256	2	US-08-567-375-1
15	53.8	3.0	6256	2	US-08-587-680A-1
16	53.8	2.9	2880	2	US-08-666-271-4
17	52.6	2.9	3905	2	US-08-666-271-1
18	52.6	2.9	2647	4	PCT-US93-06251-77
19	52.2	2.9	2890	1	US-07-928-464-1
20	51.4	2.8	2890	4	PCT-US93-07347-1
21	51.4	2.8	3033	1	US-08-003-311B-1
22	51.4	2.8	3033	1	US-08-261-432-1
23	51.4	2.8	1804	1	US-08-306-691B-40
24	50.8	2.8	1804	4	PCT-US93-06251-82
25	50.8	2.7	1058	1	US-08-238-163-1
26	49.8	2.7	831	2	US-08-567-375-15
27	48.2	2.6	1203	1	US-08-602-010A-7
28	47.6				

29	47.6	2.6	1203	1	US-08-680-726A-7	Sequence 7, Appl
30	47.6	2.6	1203	3	US-09-092-409-7	Sequence 7, Appl
31	47.6	2.6	5495	1	US-08-602-010A-1	Sequence 1, Appl
32	47.6	2.6	5495	1	US-08-602-010A-2	Sequence 2, Appl
33	47.6	2.6	5495	1	US-08-680-726A-1	Sequence 1, Appl
34	47.6	2.6	5495	1	US-08-680-726A-2	Sequence 2, Appl
35	47.6	2.6	5495	3	US-09-092-409-1	Sequence 1, Appl
36	47.6	2.6	5495	3	US-09-092-409-2	Sequence 2, Appl
37	47.6	2.6	10592	1	US-08-680-726A-51	Sequence 51, Appl
38	47.6	2.6	10592	1	US-08-680-726A-52	Sequence 52, Appl
39	47.6	2.6	10592	3	US-09-092-409-51	Sequence 51, Appl
40	47.6	2.6	10592	3	US-09-092-409-52	Sequence 52, Appl
41	46.2	2.5	3590	1	US-08-587-889-1	Sequence 1, Appl
42	46.2	2.5	3590	4	PCT-US96-09193-1	Sequence 1, Appl
43	46	2.5	4626	1	US-08-306-691B-22	Sequence 22, Appl
44	46	2.5	4626	4	PCT-US93-06251-27	Sequence 27, Appl
45	45.4	2.5	6343	3	US-08-581-148C-30	Sequence 30, Appl

ALIGNMENTS

RESULT 1
US-08-587-680A-24
; Sequence 24, Application US/08587680A
; Patent No. 5977434
; GENERAL INFORMATION:
; APPLICANT: Ronald, Pamela C.
; APPLICANT: Wang, Guo-Liang
; APPLICANT: Song, Wen-Yuang
; APPLICANT: Szabo, Veronique
; TITLE OR INVENTION: Procedures and Materials for Confering
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/587,680A
; FILING DATE: 17-JAN-1996
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/373,375
; FILING DATE: 17-JAN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/475,891
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/004,645
; FILING DATE: 29-SEP-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/567,375
; FILING DATE: 04-DEC-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Bastian, Kevin L.
; REGISTRATION NUMBER: 34,774
; REFERENCE/DOCKET NUMBER: 023070-0589400S
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 24:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1554 base pairs
; TYPE: nucleic acid

```
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA (partial)
US-08-587-680A-24
```

```
Query Match          7.7%; Score 140; DB 2; Length 1554;
Best Local Similarity 51.8%; Pred. No. 5,2e-29;
Matches 423; Conservative 0; Mismatches 375; Indels 18; Gaps 4;
```

```
QY 793 accatacttggaagagtgatcttgtaaggtatataaggacgcttgatgctca 852
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 715 AACGTCATAGGAGAGGTGAGCGGACTAGTACTATAGGAACTATGCCAAATGTCAT 774
QY 853 ctgtgacagttaaaggcttaagaagaacacaggtgtgtgagctgcaattcaa 912
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 775 CATGCGCGGTGAAATAATTGGGAATTAAGCAAGGCTTACATGATGAACGGCTATCT-- 831
QY 913 acaagagtggaatattagatagctgtgcatcgaaactcttcgtcgtctagctgttc 972
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 832 GCTGAACCTTAACACATTAGGGAAGATCAGCATAGTACATTGTGAGACTCTCGCGTTT 891
QY 973 tgcattgacacacacagagcgctctctgtatataccatcatagctgaatgtgtgcg 1032
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 892 TGTTCAAACAAGAAAGTCAACTTGTCTAGTTTATGATCATGCTAAATGGAAGCTTAG-- 949
QY 1033 tctgtttaagaagcgctcagcgcatacgaacctccctctgtttgccaactagaagaag 1092
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 950 -----GTGAAGTGCCTTATGGAAGACGCGCGGCAACTCCAAATGGGAACCTAGGCTTAAA 1005
QY 1093 attgactaggatctgctagaagggtctcttatttgcatagacattgtgtatcccaagat 1152
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1006 ATAGCCATAGAAGCTGCCAAGGGCCCTTCTTATTTGACACAGATGCTGCCCTATGATA 1065
QY 1153 atccatgtgattgtaaaagctcgcaaatatattatgtgaagaagaatttgagctctgtgta 1212
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1066 ATCCACCCGAGTGTCAACATCTCAACATATATGTTGAACTGTGAACCTTGAAGCTCATAGTT 1125
QY 1213 gttgatttgggttagcaggctcattgattacaagaagatcccatg---ttacaactgct 1269
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1126 GCAGATTTTGGATTAAGCCAACTACTTTGTGTAAACAATGCTACTGATGATGCTATGCA 1185
QY 1270 gtaagggctaccttgggtctacatagctcccgagtaacctctcgactggaagtcacagag 1329
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1186 ATTGAGGATCTTATGCGCTACATTGCTCCGAATATATGATACAGCTGAATAATTGATGAG 1245
QY 1330 aagaccgctgctctgtgtatagggatctgctcttagagctcattactctgacagaagact 1389
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1246 AAAACCGATGTGTATAGCTTTGGAGGTGTTGTTGAGCTTATTAACGAGCAGAGGCCA 1305
QY 1390 ttgtatctgctgcctctgctggaacgatgatgtattatgttctgtgattgtggttaaaagc 1449
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1306 GTAGGAATTTTGGAGAGAAAGAAATGACATTTGTACAAATGGGGAACGGAACAAAAA 1365
QY 1450 ctttgaagaagaanaaagtgtgagatgtcgtgcatccctgacccctggaagaaactataact 1509
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1366 TGGACCAAGAAGAGGCTGTGTAATAATCTTGG-----ATGAGAGGCTTAAAAAATGTTGCA 1419
QY 1510 gacaaagaagtgtgacagcttactcaagtaacatctactctgtaccagaggtctgccaatg 1569
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1420 ATTGTTGAAGCTATGCAAGTATTTTGTGTACAAATGCTTTGTGTGAAGATGATACAGCAT 1479
QY 1570 gacgcgcttaagatgtcagaggtagctccgaatgctt 1605
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1480 GAGAGGCTTACAAATGAGGAGAGTACTCCAAATGCTT 1515
```

RESULT 2

US-07-717-331F-9

Sequence 9, Application US/07717331F

Patent No. 5484905

GENERAL INFORMATION:

APPLICANT: June Nasrallah; Michael Nasrallah; and Joshua

```
APPLICANT: Stein
TITLE OF INVENTION: A Receptor Protein Kinase Gene
TITLE OF INVENTION: Encoded At The Self-Incompatibility Locus
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Yahwak & Associates
STREET: 25 Skytop Drive
CITY: Trumbull
STATE: Connecticut
COUNTRY: USA
ZIP: 06611
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Disk
COMPUTER: Macintosh
OPERATING SYSTEM: MS-DOS
SOFTWARE: Microsoft Word
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/717,331F
FILING DATE: June 19th 1991
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: George M. Ianwak
REGISTRATION NUMBER: 26,824
TELECOMMUNICATION INFORMATION:
TELEPHONE: (203)268-1951
TELEFAX: (203)268-1951
INFORMATION FOR SEQ. ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 2571 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-07-717-331F-9

Query Match          6.4%; Score 117; DB 1; Length 2571;
Best Local Similarity 53.3%; Pred. No. 1.4e-22;
Matches 318; Conservative 0; Mismatches 270; Indels 9; Gaps 3;
```

```
QY 791 gtacatacttggaagagtgatcttgtaaggtatataaggacgcttgatgctca 850
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1592 GTAAACAACTCGGACAGAGGGGTTTGGTATTTTAAACAAGCAAACTTGTGACGGGA 1651
QY 851 cactgtgagagttaaaggcttaagaagaacacaggtgtgtgagctgcaattc 910
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1652 AAGAAATTGCAATTAAGGCTTATCAACAGCTCACTTCAAGGACTGATG---AGTTTA 1708
QY 911 aaacagaagtggaatattagatagctgtgtgcatcgaactctctgcgtctacgtgctc 970
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1709 TGAATGAGTGAGACATAATGTCAGAGGCTTCACGATATTAACCTTGTCAAGTTCTTGCT 1768
QY 971 tctgcatgacacacacagagcgctctctgtatataccatcatagctgaatgtgtg 1030
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1769 GTTGCAATTGAAGAGATGAAAGATGTTGATATATGATGATTGGAATAATTAAAGCTTGG 1828
QY 1031 cgtcgtttaaagaagcgctcagcgcatacgaacctccctctgtatgtggccaactgaaga 1090
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1829 ATTCTTATCTCTTTG---GTAAACCCGAAGGCTTAACTTAATTGGAATGAGAGATTGG 1885
QY 1091 gattgcaactagatctgcttagagggcttctctatttgcatagacattgtgtatcccaaga 1150
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1886 ACATTTACCAATGTTGTTGTCGAGGGCTTTTATATCTTCAAGACTCAGCGTTTAGGA 1945
QY 1151 ttatccatcgtgtatgtaaaagctcgcaaatatattatctgacagaagaatttgaggtgtg 1210
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1946 TAAATCCACAGAGATTTGAAGATGAATGATTAACATTTTCTTGCACAAAATATGATGCCAAGA 2005
QY 1211 taagtatttgggttagctaggctcatgattacaagaagatcccatgtt---acaagct 1267
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 2006 TCTCGATTTTGGATGCGCAGAGATATTGTAAGGAGCAGAAACGGAAGCTTAACACATCA 2065
QY 1268 ctgtaagggctaccttgggtctacatagctcccgagtaacctctcgactggaagatcatcag 1327
```

Db 2066 AGGTGTCGGAACATACGCGTACATGTCGCCGGAATGCAATGATGAGATATTCGCG 2125
 Oy 1328 agaagaccgatgcttggtagttaggtatgctcttagagccctaccagcaga 1384
 Db 2126 AAAAATCAGATGTTTTCAGTTTGGAGCTAGTGTCTTGAATGTTAGTGGAAGA 2182

RESULT 3

US-07-717-331F-1
 ; Sequence 1, Application US/07717331F
 ; Patent No. 5484905
 ; GENERAL INFORMATION:
 ; APPLICANT: June Nasrallah, Michael Nasrallah, and Joshua
 ; TITLE OF INVENTION: A Receptor Protein Kinase Gene
 ; TITLE OF INVENTION: Encoded At The Self-Incompatibility Locus
 ; NUMBER OF SEQUENCES: 9
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Yahwak & Associates
 ; STREET: 25 Skytop Drive
 ; CITY: Trumbull
 ; STATE: Connecticut
 ; COUNTRY: USA
 ; ZIP: 06611
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy Disk
 ; COMPUTER: Macintosh
 ; OPERATING SYSTEM: MS-DOS
 ; SOFTWARE: Microsoft Word
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/07/717,331F
 ; FILING DATE: June 19th 1991
 ; CLASSIFICATION: 800
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: George M. Yahwak
 ; REGISTRATION NUMBER: 26,824
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (203)268-1951
 ; TELEFAX: (203)268-1951
 ; INFORMATION FOR SEQ ID NO: 1:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 2833 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: DNA
 ; US-07-717-331F-1

Query Match 6.48; Score 117; DB 1; Length 2833;

Best Local Similarity 53.38; Pred. No. 1.5e-22;
 Matches 318; Conservative 0; Mismatches 270; Indels 9; Gaps 3;

Oy 791 gtaccatctggaagaagattgtagtgaagtgtataagagagcgccttgctatgct 850
 Db 1592 GTAACAAACTGGACAAAGGTGTTTGTATGTTTTCAGAGGAAGATTACTTACGGGA 1651
 Oy 851 cacttgtagcagttaaaggcttaagaagaacgaacagagtgtagcagttc 910
 Db 1652 AAGAAATTCGAGTAAAGGCTATCAAAAGAGCTGAGTTCAAGAGCAGANG--AGTTTA 1708
 Oy 911 aaacagagtggaagtattagtagcgtgtgcacgaaatcttcgtcctacgtgct 970
 Db 1709 TGAATGAGGTACACTAATTCGAGGCTTCAGCATATTAACCTTGTTCAAGTCTTGCT 1768
 Oy 971 tctgcatacccaacagagcgctctgtatatacatatcaatgcaatggaagtg 1030
 Db 1769 GTTGCAATTGAGAGAGATGAGAAAGATGTTGATATATGAGTATTTGAAAAATTTAAGCCTTG 1828
 Oy 1031 cgtcgtgttaagaagcgtacagcatcgaacctcccttgattggtccactagaaga 1090
 Db 1829 ATTCTTATCTCTTGG--GTAACCCGAAAGGCTTAAGCTAAATTTGGAATGAGAGATTGG 1885

Oy 1091 ggatgcaatagatcgtcgaaggccttctatttgcatgaccatlgatcccaaga 1150
 Db 1886 AACTTACCAATGCTGTGCTCGAGGCGTTTATATCTTCATCAACAGACTCAGGTTTAGA 1945
 Oy 1151 ttatccatcgtatglaaaagctgcgaatataatttgacgaagaattgaagcgtg 1210
 Db 1946 TATCCACAGAGATTTGGAAGTAAAGTAAACATTTTCTTGACAAAAATATGATC-?AAGA 2005
 Oy 1211 tagtgatttggttagcgaagcctcagatgattacagaagataccatglt--acaactg 1267
 Db 2006 TCTCGGATTTTGGATGCGCAGCATATTTGAAAGGAGCAAAACGAACTAACAACATGA 2065
 Oy 1268 ctgtaagggtacccttggtgctacatagctcccgagtagtacctcgcagctgaaagatcag 1327
 Db 2066 AGGTGTCGGAACATACGCGTACATGTCGCCGGAATGCAATGATGAGATATTCGCG 2125
 Oy 1328 agaagaccgatgcttggtagttaggtatgctcttagagccctaccagcaga 1384
 Db 2126 AAAAATCAGATGTTTTCAGTTTGGAGCTAGTGTCTTGAATGTTAGTGGAAGA 2182

RESULT 4

US-08-265-628-1
 ; Sequence 1, Application US/08265628
 ; Patent No. 5821094
 ; GENERAL INFORMATION:
 ; APPLICANT: Rothstein, Steven J.
 ; APPLICANT: Goring, Daphne
 ; TITLE OF INVENTION: S-LOCUS RECEPTOR KINASE GENE IN A
 ; TITLE OF INVENTION: SELF-INCOMPATIBLE BRASSICA NAPUS LINE
 ; NUMBER OF SEQUENCES: 10
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: McAndrews, Held & Malloy, Ltd.
 ; STREET: 500 W. Madison St. Suite 3400
 ; CITY: Chicago
 ; STATE: Illinois
 ; COUNTRY: USA
 ; ZIP: 60661
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/265,628
 ; FILING DATE:
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION NUMBER:
 ; APPLICATION NUMBER: US/07/959,945
 ; FILING DATE:
 ; APPLICATION NUMBER: US 07/847,564
 ; FILING DATE: 03-MAR-1992
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Pochopien Ph.D., Donald J.
 ; REGISTRATION NUMBER: 32,167
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 312-707-9155
 ; TELEFAX: 312-707-8889
 ; INFORMATION FOR SEQ ID NO: 1:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 2749 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: cDNA
 ; HYPOTHETICAL: NO
 ; ANTI-SENSE: NO
 ; ORIGINAL SOURCE:
 ; ORGANISM: Brassica napus
 ; STRAIN: oleifera
 ; INDIVIDUAL ISOLATE: W1
 ; POSITION IN GENOME:

CHROMOSOME/SEGMENT: S-Locus
FEATURE:
NAME/KEY: CDS
LOCATION: 1..2574
PUBLICATION INFORMATION:
AUTHORS: GORING, DAPHNE
AUTHORS: ROTHSTEIN, STEVEN J.
TITLE: THE S-LOCUS RECEPTOR KINASE GENE IN A
TITLE: SELF-INCOMPATIBLE BRASSICA NAPUS LINE ENCODES A
TITLE: FUNCTIONAL SERINE/THREONINE KINASE
RELEVANT RESIDUES IN SEQ ID NO: 1: FROM 1 TO 2749
US-08-265-628-1

Query Match 6.1%; Score 110.4; DB 1; Length 2749;
Best Local Similarity 52.5%; Pred. No. 9.5e-21;
Matches 315; Conservative 0; Mismatches 276; Indels 9; Gaps 3;

QY 789 tagtaccatcttgaaagagtgattgtaagtgatataaggaagcctctgctgaag 848
DB 1593 TTGTAAACAACCTGGACAGAGTGGTTCCGATATTGTTTACAGGGTAGATTACTGATGG 1652
QY 849 ctcccttgtagcagtttaaaggtctaaagaagaacacagagtggtgagctgagtt 908
DB 1653 GCAAGAAATTGCGCTAAAGGCTATCAAAACCTCGTTCAAGGGAGCTGTG--AGTT 1709
QY 909 tcaaacagaggtgaaatgattagcagctgctgcatcgaatctctcgtctagctg 968
DB 1710 TATGATAGAGGTGAGATTGATCGGAGGCTTCACGATATTAACCTTGTCCGAATTCCTGG 1769
QY 969 ttctctgtagcaccaacagacagcgtctctgtatatacacaatgagctgaagtg 1028
DB 1770 CTGTGCTGATGAGCGACAGAGAGATGCTGATATGAGATTTTAAATAATTAACCT 1829
QY 1029 tgcgtctgtttaaagagagcgtcagccatcagaacctcccttgattggtccaaatgaa 1088
DB 1830 CGAATTCATCTCTTCG--GAAATAACAGAGCTTACCTTAATTTGAAGAGACAGATT 1886
QY 1089 gaggttagcactagatcctctgaaggcctctctatcttcatctgacatctgataccaa 1148
DB 1887 CAACATTACCAATGCTGTGCTCGAGACCTTTTATCTTCATCAACAGCTCAGCGTTAG 1946
QY 1149 gattacatctgtagttaaagagctgcaaatatatacttgagacgaagatttgaagctgt 1208
DB 1947 GATATATCCACAGAGATATGAAGATAGTAACTTTGCTTGATTAATAAATATGACACCAA 2006
QY 1209 tgtatggtatttgggttagctagctcagctcagattacaagagatacccaagtt--acaac 1265
DB 2007 GATCTCGGATTTTGGATGGCCAGAACTTTGCAAGGGAGAGACTGAAGCTTAACACAG 2066
QY 1266 tgcgttaaggggtacaccttgagctacatagctcccgagtagcctctcagctgaaagtcac 1325
DB 2067 GAAAGTGGTGGAGACTTACGCTACATGCTCTCCGAGGTACGCAATGATGGGTATTCTC 2126
QY 1326 agagaagacagatgctcttggtttagttagatgctcttgagctcattactttagacagag 1385
DB 2127 GGAATAATCAAGATGTTTCAAGTTTGGAGTCATGTCTTGAATTTCTAGTGGAATAAG 2186

RESULT 5
US-08-447-185-2
Sequence 2, Application US/08447185
Patent No. 5648599
GENERAL INFORMATION:
APPLICANT: Tanksley, Steven D.
APPLICANT: Martin, Gregory B.
TITLE OF INVENTION: GENE CONFERRING DISEASE RESISTANCE
TITLE OF INVENTION: TO PLANTS BY RESPONDING TO AN AVIRULENCE GENE IN PLANT PATHOGEN
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Michael L. Goldman
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester

STATE: New York
COUNTRY: U.S.A.
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/447,185
FILING DATE:
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/111,078
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Goldman M., Michael L.
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716)263-1000
TELEFAX: (716)-263-1600
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 966 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
US-08-447-185-2

Query Match 5.5%; Score 99.6; DB 1; Length 966;
Best Local Similarity 51.5%; Pred. No. 5.1e-18;
Matches 340; Conservative 0; Mismatches 299; Indels 21; Gaps 4;

QY 752 ttctctcgagaattcgaatcgcaagcagatctttagtacc-----taacttgaa 805
DB 86 TTCTTACTAGATTGTTGGGAGCACTAAATTAATTTGATCACAAGTTTAAATTGAC 145
QY 806 gaggttagattgtagttagttaaaggaagcgtctgctgagctcagctctgacatctgtagcaatga 865
DB 146 ATGGTGTCTTTGGAGAGTTTACAAGGGTGTCTTCCGTGATGGAGCAAGAGTGGCCCTGA 205
QY 866 aagagctttaaagaagaacacacaggttgtagctgcaagtttcaacaagaagtgagaa 925
DB 206 AAGAGGCTACACCTGAGCTGCATCAAGATATTGAAG--AGTTGAAGACAGAAATTTGAGA 262
QY 926 tgattagcagctgctgcatcgaatcctctcgctcagctcagctggttctgcatacaccaa 985
DB 263 CTCTCTCATTTTGCAGACATCCGATCTGTTTCATTGATAGGATTTCTGTATGAAGAA 322
QY 986 cagagcagctcttgtagttagttaaaggaagcgtctgagcgtcgtctgagtgagtgag 1045
DB 323 ATGAGATGATTTTAATTTAATACATGAGATGGAATGGAACTTCAAGAGACATTTGTATG 382
QY 1046 agcgtcagcatcagaacctccctctgtagtgcacactagaagaagatctgactagat 1105
DB 383 GATCAGATCTACCAACATGAGCATGAGCTGGAGACAGGCTGGAGATATGATAGAGGG 442
QY 1106 ctgctaggggctctcttaatttgcatgaccatctgtagtccaagatatccatctgtag 1165
DB 443 CAGCCAGAGGTC-----TACACTACCTTCATACATGAGCAATTTATCATGCTGAT 493
QY 1166 taaagctcgaatatattatgagcagaagaattgagagcgtctgtagtgagcttgag 1225
DB 494 TCAAGCTTTAAACATATTGCTTGATGAGAAATTTGTGCCAAAATTTACTGATTTTGGAA 553
QY 1226 tagctagctctcagattacaagat---accacatgatacagctgtagtaagggctac 1282
DB 554 TATCCAAAGAAAGGAGCTGAGCTTGTATCAACCAACCATCTTAGACAGAGTGAAGAACTC 613
QY 1283 tgggtctacatagctccgagatcctcctcagctggaagatcagagaagaagcagatgtct 1342
DB 614 TCGGCTACATGACCCGTGAATATTTATTAAGGAGCAGCTCAGTGAATAATCTGATGTTT 673

QY 1343 ttggttatggattatgcctcttagagcctcaatciagacagagagcctttgatcttgctc 1402
+ ||| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
Db 674 ATTCTTTTCGGTGTTGTATTATTCGAGACTCTTTTGTCTAGGCTGCACCATAGTTCAATCTC 733

RESULT 6
US-08-447-185-3

Query Match	5.5%;	Score 99.6;	DB 1;	Length 2443;
Best Local Similarity	51.5%;	Pred. No. 8.3e-18;		
Matches 340;	Conservative	0;	Mismatches 299;	Indels 21; Gaps 4;
Qy	752	tctctcgcagaaattgcacatgcagtcgcagcaggaactcttagtacc-----tacttgaa	805	
Db	149	tttccttttagtagattttggaggaagcaactaaataattttgatccacaggttttaatttgagac	208	
Qy	806	gaagtggaatttgtaagatggtataaaggacgccttgctgtaagtcacttgtagcaagtta	865	
Db	209	atgcgtctcttttgggaagggtttacaaaggcgttttgcgtatggaggaagaaaggctgcctta	268	
Qy	866	aaagagcttaagaagaagacaacaccagtggtgagctgcagttctcaacacagatgtgaa	925	
Db	269	aaaggcgtaacacctgagtcctccacaaaggtatttgaaag--agttcgaaacagaaaattgaga	325	
Qy	926	tgattgcatgagctgtgcatgcaaatcctctgcgtcttaogtggtttcttcgaagacccea	985	
Db	326	ctctctcatattttgcacacatcccatcttcgttcattgataaggattctcgatgaaagaa	385	
Qy	986	cagagcgcctctctglatatccatacatggtcctaibgaagatgltgcgtgttctaagag	1045	
Db	386	atgagatgattgtaatttttaattacatgcagagaaacccagacagacatttttag	445	

QY 1046 agcgtcagccatcagagacctcccttgattgccaactagagagagattgcactagat 1105
 |||||
 Db 446 GATCAGATCTTACCCACCATGATGACTGCTGGAGACAGAGCGCTGGAGATATGCATTAGG 505

Db 506 CAGCCAGAGGTC-----TACACTACCTTATACCTAGAGCAATTATACACTCGTGATG 556

Db 557 TCAGTCTATAACATATTCCTTGATGAGAAITTTTGCCAAAATTTACTGATTTTGCNA 616

Db 617 TATCCAGGAAGGACTGACCTTGATCAACCCATCTTGACACAGTAGTGAAGGAACTC 676

Db 677 TCGGCTACATTGACCCTGAATTTTAATGAAGSACGACTCATTGAAATTCGTGATCTTTT 736

Db 737 ATTCCTTCGGTGTTGTTTATTCGAGCTCTTTGTCTAGACCTCCGATAGTTCATCTC 796

RESULT 7
US-07-717-331F-4

Query Match	5.1%;	Score 92;	DB 1;	Length 2749;
Best Local Similarity	50.5%;	Pred. No. 11e-15;		
Matches 305;	Conservative	0;	Mismatches 290;	Indels 9;
				Gaps 3.


```

: STREET: Two Embarcadero Center, Eighth Floor
: CITY: San Francisco
: STATE: California
: COUNTRY: USA
: ZIP: 94111-3834
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/567,375
: FILING DATE: 04-DEC-1995
: CLASSIFICATION: 800
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 60/004,645
: FILING DATE: 29-SEP-1995
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/475,891
: FILING DATE: 07-JUN-1995
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/373,375
: FILING DATE: 17-JAN-1995
: ATTORNEY/AGENT INFORMATION:
: NAME: Bastian, Kevin L.
: REGISTRATION NUMBER: 34,774
: REFERENCE/DOCKET NUMBER: 023070-058930
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (415) 576-0200
: TELEFAX: (415) 576-0300
: INFORMATION FOR SEQ ID NO: 3:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 3921 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: DNA (genomic)
: FEATURE:
: NAME/KEY: CDS
: LOCATION: join(1..2676,3520..3918)
: OTHER INFORMATION: /product= "Xa-21"
: US-08-567-375-3

```

```

Query Match 3.2%; Score 58.6; DB 2; Length 3921;
Best Local Similarity 50.1%; Pred. No. 2e-06;
Matches 172; Conservative 0; Mismatches 169; Indels 2; Gaps 1;

Qy 86 aattcatatgaatcgtaacgataataataattacatgcaattcactgact 145
Db 1126 ACTTCGCTTAGTTCTTGCTGCACTTGAAATTGAATGAATCAACAGACGATCCCAAGGAT 1185

Qy 146 accctgacaataatggggtctcttaagacatgagccttacagaacaataaagtgac 205
Db 1186 ATTGGCAATCTTATGGCTTACAAACATC--TCTATCTCTGCAACAAACAATTTGAGAGGCT 1243

Qy 206 caattccatgagatcttgagaaatctgacaatttggtagagcttgacctataactgata 265
Db 1244 CTCTTCATCATCGTTGGGAGGCTTAAAAAAGCTTAGGCAATTCCTAGCTGCGCTACGAAAAA 1303

Qy 325 gcttcacgacataacgacacacattagaaagcttacaaagcttaagattcgtc 325
Db 1304 ACTTAGGGGTTTCGATCCCGTTGGCGCATAGGAATCTTACTGAACTTAATATCTTACTGC 1363

Qy 385 tcaacaacaagacgctctcgtgccaattccaatgtaactgactgaataataaactcttc 385
Db 1364 TCGGCAACAAATTCAGTGTGGATACCATACACACTCTCAAACTCTCAAAACTTGT 1423

Qy 428 aagtcctgatttatacaacaatcggtcatcaggaaccagttacc 428
Db 1424 TGTCAATTAGGCGCTTCAACTAATACTAGTGTGCTCAATACC 1466

```

```

RESULT 10
US-08-587-680A-3
: Sequence 3, Application US/08587680A
: Patent No. 5977434
: GENERAL INFORMATION:
: APPLICANT: Ronald, Pamela C.
: APPLICANT: Wang, Guo-liang
: APPLICANT: Song, Wen-Yuang
: APPLICANT: Szabo, Veronique
: TITLE OF INVENTION: Procedures and Materials for Confering
: NUMBER OF SEQUENCES: 27
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Townsend and Townsend and Crew LLP
: STREET: Two Embarcadero Center, Eighth Floor
: CITY: San Francisco
: STATE: California
: COUNTRY: USA
: ZIP: 94111-3834
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/587,680A
: FILING DATE: 17-JAN-1996
: CLASSIFICATION: 800
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/373,375
: FILING DATE: 17-JAN-1995
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/475,891
: FILING DATE: 07-JUN-1995
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 60/004,645
: FILING DATE: 29-SEP-1995
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/567,375
: FILING DATE: 04-DEC-1995
: ATTORNEY/AGENT INFORMATION:
: NAME: Bastian, Kevin L.
: REGISTRATION NUMBER: 34,774
: REFERENCE/DOCKET NUMBER: 023070-058940US
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (415) 576-0200
: TELEFAX: (415) 576-0300
: INFORMATION FOR SEQ ID NO: 3:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 3921 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: DNA (genomic)
: FEATURE:
: NAME/KEY: CDS
: LOCATION: join(1..2676,3520..3918)
: OTHER INFORMATION: /product= "Xa-21"
: US-08-587-680A-3

```

```

Query Match 3.2%; Score 58.6; DB 2; Length 3921;
Best Local Similarity 50.1%; Pred. No. 2e-06;
Matches 172; Conservative 0; Mismatches 169; Indels 2; Gaps 1;

Qy 86 aattcatatgaatcgtaacgataataataattacatgcaattcactgact 145
Db 1126 ACTTCGCTTAGTTCTTGCTGCACTTGAAATTGAATGAATCAACAGACGATCCCAAGGAT 1185

Qy 146 accctgacaataatggggtctcttaagacatgagccttacagaacaataaagtgac 205
Db 1186 ATTGGCAATCTTATGGCTTACAAACATC--TCTATCTCTGCAACAAACAATTTGAGAGGCT 1243

```

QY	206	caatctctagtagcttgaggaactctgaacaatttggtagctcttgagacctatcatgata	265
Db	1244	CTCTTCATCATCATGCTTGTTGGGACAGGCTTTAAAAACTTTAGGCATTCTACTCGCCTTCGAAACA	1305
QY	266	gctctcttgagctatataccggaacatttagaaagcttacaagagctaaagtcttcgctc	325
Db	1304	ACTTGACGGGTTCGATCCCTTGTCATATGAGAAATCTTACTGAACTTATATCTTATCTACGC	1365
QY	326	tcaaacacaaagcctctctcgctgcacattccaatccatgctacgtcgtctatataactcttc	385
Db	1364	TGCGACCAACAATTTAGTGTGGTGGATACCAATACACTCTCAACTCTCAACCTCAACAACTGT	1425
QY	386	aagtcctgattatcaacaacacgagctacagaccagtlacc	428
Db	1424	TGTCATTAGCGCTTTCAACTAATATACCTTAGTGTCACATACC	1466
RESULT 11			
US-08-475-891A-3			
: Sequence 3, Application US/08475891A			
: Patent No. 5859339			
: GENERAL INFORMATION:			
: APPLICANT: Ronald, Pamela C.			
: APPLICANT: Wang, Guo-Liang			
: TITLE OF INVENTION: Procedures and Materials for Confering			
: TITLE OF INVENTION: Disease Resistance in Plants			
: NUMBER OF SEQUENCES: 15			
: CORRESPONDENCE ADDRESS:			
: ADDRESSEE: Townsend and Townsend and Crew LLP			
: STREET: Two Embarcadero Center, Eighth Floor			
: CITY: San Francisco			
: STATE: California			
: COUNTRY: USA			
: ZIP: 94111-3834			
: COMPUTER READABLE FORM:			
: MEDIUM TYPE: Floppy disk			
: COMPUTER: IBM PC compatible			
: OPERATING SYSTEM: PC-DOS/MS-DOS			
: SOFTWARE: PatentIn Release #1.0, Version #1.30			
: CURRENT APPLICATION DATA:			
: APPLICATION NUMBER: US/08/475,891A			
: FILING DATE: 06-JUN-1995			
: CLASSIFICATION: 800			
: PRIOR APPLICATION DATA:			
: APPLICATION NUMBER: US 08/373,375			
: FILING DATE: 17-JAN-1995			
: ATTORNEY/AGENT INFORMATION:			
: NAME: Bastian, Kevin L.			
: REGISTRATION NUMBER: 34,774			
: REFERENCE/DOCKET NUMBER: 02370-058910US			
: TELECOMMUNICATION INFORMATION:			
: TELEPHONE: (415) 576-0300			
: TELEFAX: (415) 576-0200			
: INFORMATION FOR SEQ ID NO: 3:			
: SEQUENCE CHARACTERISTICS:			
: LENGTH: 5992 base pairs			
: TYPE: nucleic acid			
: STRANDEDNESS: single			
: TOPOLOGY: linear			
: MOLECULE TYPE: DNA (genomic)			
: FEATURE:			
: NAME/KEY: CDS			
: LOCATION: join(512..3149, 3993..4393)			
: OTHER INFORMATION: /product="RRK-B"			
: OTHER INFORMATION: /note="Xa21 Xanthomonas spp. disease			
: OTHER INFORMATION: resistance gene RRR-B from rice (Oryza			
: OTHER INFORMATION: sativa)"			
US-08-475-891A-3			
Query Match	3.28;	Score 58.6;	DB 2;
Best Local Similarity	50.1%;	Pred. No. 2.4e-06;	Length 5992;

```

Matches 172: Conservative 0: Mismatches 169: Indels 2: Gaps 1,
OY 86 aattctatagtaactogtaacagtaataatataaattcaatcagctcattgctt 145
    |||||
DB 1637 ACTTGCTTAGTATTTCTTGGCACTTGAAATGATAAGATCACAGGAAGCATTTCCGAAGAT 1696
OY 146 acccttgacaatatgagggtctctatagacattggagctcttacagcaatacaataagtgac 205
    |||||
DB 1697 AATTGCATCTTATGGCTTACACATC--TCTATCTGTGCACACACAAATTTCAAGGGCT 1754
OY 206 caattccctagtagatcttgggaatctgacaatttggtagcttggacctaatacaltga 265
    |||||
DB 1755 CTCTTCGATCATCTGTGGGGCAGGCTTAAAAAACTTAGGCATTTCTACTCCCTACGMAAACA 1814
OY 266 gcttctcggagccttaccagacacatattggaagaacttacaagtgaaagcttctggctc 325
    |||||
DB 1815 ACTTAGGCGGTTTCATCCCGTTGGCCATAGGAATCTTACTGAACTTATATCTTACTGTC 1874
OY 326 tcaaacacaacagcctctctgtgtccaaattccaatgtacactgaactaataatacaactctt 385
    |||||
DB 1875 TCGGCACCAACAATTCAGTGGTGGATGCACTATACACTCTCAAACTCCACAAACTTGT 1934
OY 386 aagtcctgattatcaacaacatggcgtcatcagaccgctacc 428
    |||||
DB 1935 TGTCAATTAGGCGCTTCAACTAATAACTTAGTGTCATAATCC 1977

RESULT 12
PCT-US93-06251-83
: Sequence 83, Application PC/TUS9306251
: GENERAL INFORMATION:
: APPLICANT: WICKSTROM, Eric and Rife, Jason P.
: TITLE OF INVENTION: Trivalent Synthesis of Oligonucleotides Containing
: TITLE OF INVENTION: Stereospecific Alkylphosphonates and Arylphosphonates
: NUMBER OF SEQUENCES: 93
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
: STREET: 400 Garden City Plaza
: CITY: Garden City
: STATE: NY
: COUNTRY: USA
: ZIP: 11530
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentln Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: PCT/US93/06251
: FILING DATE: 19930630
: CLASSIFICATION:
: ATTORNEY/AGENT INFORMATION:
: NAME: DIGI9110, Frank S.
: REGISTRATION NUMBER: 31,346
: REFERENCE/DOCKET NUMBER: 8586
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 516-742-4343
: TELEFAX: 516-742-4366
: TELEX: 230 901 SANS UR
: INFORMATION FOR SEQ ID NO: 83:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 4517 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: double
: TOPOLOGY: linear
: MOLECULE TYPE: DNA (genomic)
: PCT-US93-06251-83

Query Match 3.2% Score 57.2: DB 4: Length 4517:
Best local similarity 53.0%: Pred. No. 5.1e-06:
Matches 122: Conservative 0: Mismatches 108: Indels 0: Gaps 0:

```

Oy	1147	aagatcattccatcgcgagatgtaaaagctcgtcaaatatattattggacgaagaatttgggct	1206
Db	1378	AACTATATTTCACCGAGATCTGGGCTGCTAATATTCTTGAGGAAATAATCTTGATGC	1437
Oy	1207	gtgtgaagtatttgggttagctagcgcattcgaattacaagatacccatgttacaact	1266
Db	1438	AAAAATAGCAGACTTTGGTTTACCAAGCTTAATTGAAGACACATGAAATACACGCAAGCAAA	1497
Oy	1267	gctgtgaaggggtaccttgggtctacabagctcccgagttacctctcgactggaagatcata	1326
Db	1498	GGTGCAAAATTTCCAAATCAATGAGACGCTCCTGGAAGCTGCACATGATGCTGGTTTACA	1557
Oy	1327	gagaagaccgatgctcttggttatgagattatagctctttagagctcatc	1376
Db	1558	ATTAAGGTCGTGATCTGGTCATTTTGGAATTTGCCAAACGAATCTAGTAAC	1607

```

RESULT 13
US-08-238-163-3
; Sequence 3, Application US/08238163
; Patent No. 5569830
; GENERAL INFORMATION:
; APPLICANT: BENNETT, Alan
; APPLICANT: LABAVITCH, John M.
; APPLICANT: POWELL, Ann
; APPLICANT: STOTZ, Henrik
; TITLE OF INVENTION: PLANT INHIBITORS OF FUNGAL
; TITLE OF INVENTION: POLYGLACTURONASES AND THEIR USE TO CONTROL FUNGAL DISEASE
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend Kourie and Crew
; STREET: Stewart Street Tower, One Market Plaza
; CITY: San Francisco
; STATE: California
; COUNTRY: US
; ZIP: 94105-1493
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/238,163
; FILING DATE: 03-MAY-1994
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: Bastian, Kevin L.
; REGISTRATION NUMBER: 34,774
; REFERENCE/DOCKET NUMBER: 2307E-540
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2075 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 421..1401
US-08-238-163-3

Query Match 3.0%; Score 54.8; DB 1; Length 2075;
Best local Similarity 51.7%; Pred. 0.15e-05;
Matches 125; Conservative 0; Mismatches 117; Indels 0; Gaps 0;

QY 190 ataacataagtgaccactctcctagtatgatcttgggaatctgcacaatttggtagcttg 249
   | 111 | 111 | 111 | 111 | 11 | 111 | 111 | 111 | 111 | 111 | 111 |
DB 721 actaaactctacccgacacattctccacatcgcaattgcgaagctcaccaaatctcaaaattgta 780

```

Oy	250	gactcatatcagaatagctctctcggacattaccggacacattagaagaagc tat...	369
Db	761	AGGCTCAGCTTCACCTAACCTTACAGGTCGATGCCCTGAATTCCTACGTCAAGTGAACAA	840
Oy	310	ctaagattcctgcgltccacaacaacagcctcctcgtgccaatlccaatg caactgact	369
Db	841	TTGACGTTGGCTCGAATTCAATTTACCAATCAATTTACCGAACAACTCTCTCTCCCTCTCT	900
Oy	370	aatatlaaactcctcaagtcctcgtgattatccaacaacatcg gatataaggaacagatccg	429
Db	901	CAGCTTCGGAATTTGCTGCGCATGTACTTAACTGTAACAACACCTACCGGACCAATACCG	960
Oy	430	ga	431
Db	961	GA	962

```

1      RESULT 14
2      US-08-475-891A-1
3      : Sequence 1, Application US/08475891A
4      : Patent No. 5859339
5      : GENERAL INFORMATION:
6      : APPLICANT: Ronald, Pamela C.
7      : APPLICANT: Wang, Guo-Liang
8      : APPLICANT: Song, Wen-Yuang
9      : TITLE OF INVENTION: Procedures and Materials for Confering
10     : TITLE OF INVENTION: Disease Resistance in Plants
11     : NUMBER OF SEQUENCES: 15
12     : CORRESPONDENCE ADDRESSES:
13     : ADDRESSEE: Townsend and Townsend and Crew LLP
14     : STREET: Two Embarcadero Center, Eighth Floor
15     : CITY: San Francisco
16     : STATE: California
17     : COUNTRY: USA
18     : ZIP: 94111-3834
19     : COMPUTER READABLE FORM:
20     : MEDIUM TYPE: Floppy disk
21     : COMPUTER: IBM PC compatible
22     : OPERATING SYSTEM: PC-DOS/MS-DOS
23     : SOFTWARE: Patent Release #1.0, Version #1.30
24     : CURRENT APPLICATION DATA:
25     : APPLICATION NUMBER: US/08/475,891A
26     : FILING DATE: 06-JUN-1995
27     : CLASSIFICATION: 800
28     : PRIOR APPLICATION NUMBER: US 08/373,375
29     : APPLICATION DATE: 17-JAN-1995
30     : ATTORNEY/AGENT INFORMATION:
31     : NAME: Bastlian, Kevin L.
32     : REGISTRATION NUMBER: 34,774
33     : REFERENCE/DOCKET NUMBER: 02370-0589100S
34     : TELECOMMUNICATION INFORMATION:
35     : TELEPHONE: (415) 576-0200
36     : TELEFAX: (415) 576-0300
37     : INFORMATION FOR SEQ ID NO: 1:
38     : SEQUENCE CHARACTERISTICS:
39     : LENGTH: 6256 base pairs
40     : TYPE: nucleic acid
41     : STRANDEDNESS: single
42     : TOPOLOGY: linear
43     : MOLECULE TYPE: DNA (genomic)
44     : FEATURE:
45     : NAME/KEY: CDS
46     : LOCATION: join(1548..4383, 5178..5513)
47     : OTHER INFORMATION: /product="RRK-F"
48     : OTHER INFORMATION: /note="Xa21 Xanthomonas spp. disease
49     : OTHER INFORMATION: resistance gene RRK-F from rice (Oryza
50     : OTHER INFORMATION: sativa)"
51     US-08-475-891A-1

```

```

Matches 109; Conservative 0; Mismatches 92; Indels 0; Gaps 0;
QY 179 agcttacaagcacaataaagtgaccgaattcctagtgatcttgggaatctgacaatt 238
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 2885 ATCTTGCAACACAAATTTGAGAGGTCATTCATCGTTGCGCGAGGCTTAGAAACT 2944
QY 239 tggtagacttggaccatcacatagctctctcggaccctaccggaccattagaa 298
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 2945 TAGGCATTTCTAGTCCCTACGAAACAACTTGAGGGTTCCATTCGATGGCCATAGCA 3004
QY 299 agcttacaagcctaagattcttgcgtctcaacaacaacagcctctcgtcccaattccaa 358
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 3005 ATCTTACTGAACTTAATATCTTACTGCTCGGCACCAACAATTCAGTGTGATACCAT 3064
QY 359 tgcactgactaataatcaaa 379
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 3065 ACACACTCTCAACCTCACAA 3085

RESULT 15
US-08-567-375-1
; Sequence 1, Application US/08567375
; Patent No. 5952485
;
; GENERAL INFORMATION:
; APPLICANT: Ronald, Pamela C.
; APPLICANT: Wang, Guo-Liang
; APPLICANT: Song, Wen-Yuang
; APPLICANT: Szabo, Veronique
; TITLE OF INVENTION: Procedures and Materials for Confering
; TITLE OF INVENTION: Disease Resistance in Plants
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/567,375
; FILING DATE: 04-DEC-1995
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/004,645
; FILING DATE: 29-SEP-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/475,891
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/373,375
; FILING DATE: 17-JAN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Bastian, Kevin L.
; REGISTRATION NUMBER: 34,774
; REFERENCE/DOCKET NUMBER: 023070-058930
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 6256 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: join(1648..4383, 5178..5513)

```

```

; OTHER INFORMATION: /product= "RRK-F"
; OTHER INFORMATION: /note="Xa21 Xanthomonas spp. disease
; OTHER INFORMATION: resistance gene RRK-F from rice
; OTHER INFORMATION: (Oryza sativa)"
US-08-567-375-1

```

```

Query Match 3.0%; Score 53.8; DB 2; Length 6256;
Best Local Similarity 54.2%; Pred. No. 5.2e-05;

```

```

Matches 109; Conservative 0; Mismatches 92; Indels 0; Gaps 0;

```

```

QY 179 agcttacaagcacaataaagtgaccgaattcctagtgatcttgggaatctgacaatt 238
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 2885 ATCTTGCAACACAAATTTGAGAGGTCATTCATCGTTGCGCGAGGCTTAGAAACT 2944
QY 239 tggtagacttggaccatcacatagctctctcggaccctaccggaccattagaa 298
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 2945 TAGGCATTTCTAGTCCCTACGAAACAACTTGAGGGTTCCATTCGATGGCCATAGCA 3004
QY 299 agcttacaagcctaagattcttgcgtctcaacaacaacagcctctcgtcccaattccaa 358
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 3005 ATCTTACTGAACTTAATATCTTACTGCTCGGCACCAACAATTCAGTGTGATACCAT 3064
QY 359 tgcactgactaataatcaaa 379
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 3065 ACACACTCTCAACCTCACAA 3085

```

```

Search completed: January 15, 2001, 20:42:16
Job time: 7112 sec

```


GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 15, 2001, 20:42:16 ; Search time 236.11 Seconds

(without alignments)
2785.546 Million cell updates/sec

Title: US-09-180-798-20

Sequence: 1 tctagaaccttttgatcatc.....taaggaatcatgtctctaga 4081

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 280836 seqs, 80580151 residues

Total number of hits satisfying chosen parameters: 561672

Minimum DB seq length: 0
Maximum DB seq length: 2000000000Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Issued_Patents_NA:*
1: /cgn2_6/prodata/1/ina/5A_COMB.seq:*
2: /cgn2_6/prodata/1/ina/5B_COMB.seq:*
3: /cgn2_6/prodata/1/ina/6_COMB.seq:*
4: /cgn2_6/prodata/1/ina/PCTUS_COMB.seq:*
5: /cgn2_6/prodata/1/ina/backfillseq1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result	Score	Query	Match length	ID	Description
No.					
1	72.2	1.8	7218	1	US-08-232-463-14
2	71.6	1.8	1554	2	US-08-587-680A-24
3	64	1.6	5733	2	US-08-473-553A-1
4	59.8	1.5	966	1	US-08-447-185-2
5	59.8	1.5	2443	1	US-08-447-185-3
6	59	1.4	2571	1	US-07-717-331F-9
7	59	1.4	2833	1	US-07-717-331F-1
8	55.4	1.4	2749	1	US-07-717-331F-4
9	54.2	1.3	2749	1	US-08-265-628-1
10	53.2	1.3	19124	2	US-08-487-826B-13
11	49.2	1.2	6343	3	US-08-581-148C-30
12	47.8	1.2	240	1	US-08-628-417-6
13	47.2	1.2	87350	3	US-08-781-891-79
14	46.2	1.1	3921	2	US-08-567-375-3
15	46.2	1.1	3921	2	US-08-587-680A-3
16	46.2	1.1	3921	2	US-08-475-891A-3
17	46.2	1.1	6256	2	US-08-475-891A-1
18	46.2	1.1	6256	2	US-08-567-375-1
19	46.2	1.1	6256	2	US-08-587-680A-1
20	46	1.1	2447	2	US-09-014-969-14
21	45.4	1.1	7218	1	US-08-232-463-14
22	45	1.1	6243	2	US-09-056-075-1
23	44.4	1.1	13473	4	PCT-US96-03916-1
24	44.4	1.1	18912	4	PCT-US96-03916-59
25	43.8	1.1	2621	2	US-08-553-619B-8
26	43.2	1.1	1611	4	US-07-820-011A-3
27	43.2	1.1	1611	4	PCT-US93-00445-3
28	42.8	1.0	19124	2	US-08-487-826B-13

29	41	1.0	5852	1	US-07-867-106-2	Sequence 2, Appl
30	40.6	1.0	2208	4	PCT-US95-08493-1	Sequence 1, Appl
31	40.6	1.0	2580	4	PCT-US95-08493-18	Sequence 18, Appl
32	40.6	1.0	2604	4	PCT-US95-08493-20	Sequence 20, Appl
33	40.6	1.0	2869	1	US-08-374-834-2	Sequence 2, Appl
34	40.6	1.0	2869	1	US-08-644-271-2	Sequence 2, Appl
35	40.4	1.0	2216	1	US-08-046-583-12	Sequence 12, Appl
36	40.4	1.0	2216	1	US-08-384-556A-3	Sequence 3, Appl
37	40.4	1.0	2216	2	US-08-331-355A-24	Sequence 24, Appl
38	40.4	1.0	2216	4	PCT-US94-12364-24	Sequence 24, Appl
39	40.4	1.0	2216	4	PCT-US95-07753-3	Sequence 3, Appl
40	40.4	1.0	2298	3	US-09-157-077-1	Sequence 7, Appl
41	40.4	1.0	2327	3	US-09-157-077-1	Sequence 1, Appl
42	40.2	1.0	642	1	US-08-764-100-13	Sequence 13, Appl
43	40.2	1.0	3000	1	US-08-764-100-9	Sequence 9, Appl
44	39.8	1.0	1920	1	US-08-186-222-1	Sequence 1, Appl
45	39.6	1.0	831	2	US-08-567-375-15	Sequence 15, Appl

ALIGNMENTS

RESULT 1
US-08-232-463-14
; Sequence 14, Application US/08232463
; Patent No. 5670367
; GENERAL INFORMATION:
; APPLICANT: DORNER, F.
; APPLICANT: SCHEIFLINGER, F.
; APPLICANT: FALKNER, F. G.
; TITLE OF INVENTION: RECOMBINANT FOMLPOX VIRUS
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESS: Foley & Lardner
; STREET: 1800 Diagonal Road, Suite 500
; CITY: Alexandria
; STATE: VA
; COUNTRY: USA
; ZIP: 22313-0299
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/232,463
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/935,313
; FILING DATE:
; APPLICATION NUMBER: EP 91 114 300.6
; FILING DATE: 26-AUG-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 30472/114 IMMU
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)836-9300
; TELEFAX: (703)683-4109
; TELE: 899149
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 7218 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; CLONE: pTZgpt-Fls
; US-08-232-463-14

Query Match 1.8%; Score 72.2; DB 1; Length 7218;

1 RESULT 2
 2 US-08-587-680A-24
 3 Sequence 24, Application US/08587680A
 4 Patent No. 5977434
 5
 6 GENERAL INFORMATION:
 7
 8 APPLICANT: Ronald, Pamela C.
 9 APPLICANT: Wang, Guo-Liang
 10 APPLICANT: Song, Wen-Yuang
 11 APPLICANT: Szabo, Veronique
 12
 13 TITLE OF INVENTION: Procedures and Materials for Confering
 14 TITLE OF INVENTION: Disease Resistance in Plants
 15
 16 NUMBER OF SEQUENCES: 27
 17
 18 CORRESPONDENCE ADDRESS:
 19 ADDRESSEE: Townsend and Townsend and Crew LLP
 20 STREET: Two Embarcadero Center, Eighth Floor
 21 CITY: San Francisco
 22 STATE: California
 23
 24 COUNTRY: USA
 25
 26 ZIP: 94111-3834
 27
 28 COMPUTER READABLE FORM:
 29
 30 MEDIUM TYPE: Floppy disk
 31 COMPUTER: IBM PC compatible
 32 OPERATING SYSTEM: PC-DOS/MS-DOS
 33 SOFTWARE: PatentIn Release #1.0, Version #1.30
 34
 35 CURRENT APPLICATION DATA:
 36 APPLICATION NUMBER: US/08/587,680A
 37 FILING DATE: 17-JAN-1996
 38
 39 CLASSIFICATION: 800
 40
 41 PRIOR APPLICATION DATA:
 42 APPLICATION NUMBER: US 08/373,375
 43 FILING DATE: 17-JAN-1995
 44
 45 PRIOR APPLICATION DATA:
 46 APPLICATION NUMBER: US 08/475,891
 47 FILING DATE: 07-JUN-1995
 48
 49 PRIOR APPLICATION DATA:
 50 APPLICATION NUMBER: US 06/004,645
 51 FILING DATE: 29-SEP-1995

```

QY      3783   ctgatattggccaacgagcggaagaagaatlcgcgtcctagtcagtccagggttttclactcla    3642
                ||| | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db       982   CTCCAATGGGGAACATTAGCGCTTAAAAAATAAGCCATTAGAAGCTGCCAACAGGGCCTTTCTTATTGG    1041
OY      3843   catgatcaatcgtgcatccgaagaatcatcacaccgtgacctgaataaagcagacaacactcccta    3902
                ||| | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db       1042   CACCACGATTCGTCCCTTAATGATTAATTCACCGCGATGTCAAAGTCCAACAATATTATTGTTG     1101
OY      3903   gacgaagaatlcgaagcggttgttgtagattlccgglttggcaaag---ctaalgactat    3959
                ||| | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db       1102   AACTCTGAACTTAGAGCTCATGTTGCAGATTTTGATTTGCCAAGACTTTTGTAACAAT     1161
OY      3960   aaagacactcaacgtlgacaaacagcaagtcggtgycacatcgtgtccaatcgtgccagaatat    4019
                ||| | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db       1162   GGTACTCTGTGATGTCATGTGCATTTGCATTTGCATGCAAGATCTTATGGCTTACATTGCTTCAGAAAAT     1221
OY      4020   cttccaacccggaanaatlctcagagaagaacccgacggttltcgagtaagaaatcgtctla    4079
                ||| | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db       1222   GCATACACGCTGAANAATTGATGAGANNAAGCATGTATTAGCTTTGGAGTGGTGTGTTG     1281
OY      4080   ga 4081
                ||
Db       1282   GA 1283

RESULT        3
US-08-473-553A-1
; Sequence 1, Application US/08473553A
; Patent No. 5859338
; GENERAL INFORMATION:
; APPLICANT: Meyerowitz, Elliot M.
; APPLICANT: Clark, Steven E.
; APPLICANT: Williams, Robert W.
; TITLE OF INVENTION: Plant Clavatal Nucleic Acids,
; TITLE OF INVENTION: Transformed Plants, and Proteins
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Flehr, Hohbach, Test, Albritton & Herbert
; STREET: Four Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: California
; COUNTRY: United States
; ZIP: 94111-4187
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
```


RESULT 5
 US-08-447-185-3
 ; Sequence 3, Application US/08447185
 ; Patent No. 5648599
 ; GENERAL INFORMATION:
 ; APPLICANT: Tankley, Steven D.
 ; APPLICANT: Martin, Gregory B.
 ; TITLE OF INVENTION: GENE CONFERRING DISEASE RESISTANCE
 ; TITLE OF INVENTION: TO PLANTS BY RESPONDING TO AN AVIRULENCE GENE IN PLANT PATHOGEN
 ; NUMBER OF SEQUENCES: 5
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Michael L. Goldman
 ; STREET: Clinton Square, P.O. Box 1051
 ; CITY: Rochester
 ; STATE: New York
 ; COUNTRY: U.S.A.
 ; ZIP: 14603
 ;
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/447,185
 ; FILING DATE:

RESULT 7
 US-07-717-331F-1
 Sequence 1, Application US/07717331F
 Patent No. 5484905
 GENERAL INFORMATION:
 APPLICANT: June Nasrallah; Michael Nasrallah; and Joshua
 APPLICANT: Stehl
 TITLE OF INVENTION: A Receptor Protein Kinase Gene
 TITLE OF INVENTION: Encoded At The Self-Incompatibility Locus
 NUMBER OF SEQUENCES: 9
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Yahwak & Associates
 STREET: 25 Skytop Drive
 CITY: Trumbull
 STATE: Connecticut
 COUNTRY: USA
 ZIP: 06611
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy Disk
 COMPUTER: Macintosh
 OPERATING SYSTEM: MS-DOS
 SOFTWARE: Microsoft Word
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/717,331F
 FILING DATE: June 19th 1991
 CLASSIFICATION: 800
 ATTORNEY/AGENT INFORMATION:
 NAME: George M. Yahwak
 REGISTRATION NUMBER: 26, 824
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (203) 268-1951

LENGTH: 2749 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Brassica napus
STRAIN: oleifera
INDIVIDUAL ISOLATE: W1
POSITION IN GENOME:
CHROMOSOME/SEGMENT: S-Locus
FEATURE:
NAME/KEY: CDS
LOCATION: 1..2574
PUBLICATION INFORMATION:
AUTHORS: GORING, DAPHNE
AUTHORS: ROTHSTEIN, STEVEN J.
TITLE: THE S-LOCUS RECEPTOR KINASE GENE IN A
TITLE: SELF-INCOMPATIBLE BRASSICA NAPUS LINE ENCODES A
TITLE: FUNCTIONAL SERINE/THREONINE KINASE
RELEVANT RESIDUES IN SEQ ID NO: 1: FROM 1 TO 2749
US-08-265-628-1

Query Match 1.3%; Score 54.2; DB 1; Length 2749;
Best Local Similarity 50.8%; Pred. No. 0.00043;
Matches 156; Conservative 0; Mismatches 148; Indels 3; Gaps 1;

QY 3778 ctccgctgattgagcaacgcggaagaaatcgcgcctgacgctcagcaggttgcctc 3837
DB 1862 CTAGGTTAAATGGAAGACAGGATTCAACATTACCAATGGTGGTCTCGAGGATTTTAT 1921
QY 3838 acccaatgatcactcgcgcgcgaagatcaccgcgtgacgtaaaagcgcaaacatcc 3897
DB 1922 ATCTTCAATCAAGACTCGGTTTGGATATCCACAGAGATATCAAGTAAGTAACATTT 1981
QY 3898 tcttagacgaagaattcgaagcgtgtgtgagattcgcggttgcggaagctaaatgact 3957
DB 1982 TGCTTGATATAATATGACACCAAGATCTCGGATTTTGGAGTGGCCAGATCTTGCAG 2041
QY 3958 ataaagacactcactgacacgaagca---gtccgttgacacatcgcgcacatcgcacg 4014
DB 2042 GGGACGAGACTGAGGATCAACAGCAAGAAAGGTGTCGGAACCTTACGCTACATGCTCGG 2101
QY 4015 aatctctcacaacggaataatctcagaagaacacgcgttttcgatacggaaatcgc 4074
DB 2102 AGTACGCAATGGATGGGTATTTCTCGGAAAAATCAGATGTTTTCAGTTTGGAGTCA 2161
QY 4075 ttcctaga 4081
DB 2162 TTCTTGA 2168

RESULT 10
US-08-487-826B-13/C
; Sequence 13, Application US/08487826B
; Patent No. 5993827
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellens, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knodde Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach

STATE: California
COUNTRY: US
ZIP: 92660
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/487,826B
FILING DATE: 10-SEP-1993
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Israelson, Ned
REGISTRATION NUMBER: 29,655
REFERENCE/DOCKET NUMBER: NIH121.001CP1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 235-8550
TELEFAX: (619) 235-0176
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 19124 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-487-826B-13

Query Match 1.3%; Score 53.2; DB 2; Length 19124;
Best Local Similarity 48.1%; Pred. No. 0.002; Mismatches 193; Indels 1; Gaps 1;
Matches 180; Conservative 0; Mismatches 193; Indels 1; Gaps 1;

QY 1336 ttcacgtgctgctcgtcctaatttggaaggttcgtgttaccctaactaccgcttc 1395
DB 15784 TTTTCTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTT 15725
QY 1396 acccgcttctcaatctccttcogattcctttatcttggaaggtgaatccatcttag 1455
DB 15724 ATTTTCTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCT 15665
QY 1456 tgcctgatttgattgaagaatgtgtcgttccttgatttgtaagaattcagtgac 1515
DB 15664 TTTCTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCT 15606
QY 1516 tagtacttgaatcacctgttctccttccttcgttcgaatcaacttgcatactg 1575
DB 15605 TAATTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCT 15446
QY 1576 gcaatgcttcttggaagaagctggtatattgatacttaagaatgagtgctgac 1635
DB 15545 ATTTTATTTATTTTAAATTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCT 15486
QY 1636 caaacattctcgaagaactcattgtttcttggttttgtaagaattgtaacta 1695
DB 15485 AAATTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCT 15426
QY 1696 agccttaactca 1709
DB 15425 CTTTCTTAAATATA 15412

RESULT 11
US-08-581-148C-30
; Sequence 30, Application US/08581148C
; Patent No. 6060644
; GENERAL INFORMATION:
; APPLICANT: Schmable, Patrick S.
; APPLICANT: Robertson, Donald S.
; APPLICANT: Hansen, Joel D.
; APPLICANT: Nikolau, Basil J.

```

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/628,417
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: BIFONT, UYSSSES J
REGISTRATION NUMBER: 39,908
REFERENCE/DOCKET NUMBER: DAM 398-94
TELECOMMUNICATION INFORMATION:
TELEPHONE: 410-671-1158
TELEFAX: 410-671-2534
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 240 bases
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: oligodeoxynucleotide
HYPOTHEICAL: NO
ANTI-SENSE: YES
US-08-628-417-6

Query Match 1.2% Score 47.8; DB 1; Length 240;
Best Local Similarity 50.2%; Pred. No. 0.005;
Matches 118; Conservative 0; Mismatches 117; Indels 0; Gaps 0.

Qy 1401 ttctcaataactctcgcattcttttlatcttgaggagtcacgcatacttagtgcct 1460
    ||| || ||| || ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 239 ttttttttttttttttttttttttttttttttttttttttttttttttttttttttt 180

Qy 1461 gcatttgattgaagaatttgcttcttgcttgatcttgaaagattgagctga 1520
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 179 ttttttttttttttttttttttttttttttttttttttttttttttttttttttt 120

Qy 1521 ctttgatataactgtttcttcttcttgctcagatcaacttgatatactgaaagcattg 1580
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 119 ttttttttttttttttttttttttttttttttttttttttttttttttttttttttt 60

Qy 1581 tctcttgaggtgaaagcgtggttattgatatcttaagatgtagtctgtgattc 1635
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 59 ttttttttttttttttttttttttttttttttttttttttttttttttttttttttt 5

RESULT 13
US-08-781-891-79
Sequence 79, Application US/08781891
Patent No. 6090620
GENERAL INFORMATION:
APPLICANT: Fu, Yang-Hui
APPLICANT: Yu, Chang-En
APPLICANT: Oshima, Junko
APPLICANT: Mulligan, John T.
APPLICANT: Schellenberg, Gerald D.
TITLE OF INVENTION: GENE AND GENE PRODUCTS RELATED TO
NUMBER OF SEQUENCES: 209
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
City: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:

```

FILING DATE: 17-JAN-1995

FILING DATE: 17-JAN-1996


```

Db 1714 AATGAGTGGAGATGTGATGCGAGGCTTCAGCATATTAACCTTGTCCGAAATTCCTGGCTGT 1773
QY 1290 tglatgacacccgacgagatgtctgtgtatccctacatgccaatggaagtgtgtct 1349
Db 1774 TGCATTTGAGGAGAGAGAAAGATGCTGTATATGATATTAGAAAATTTAAAGCTCGAT 1833
QY 1350 tctgtctcagagagagggccacgctcccaacctcgtgattgtgccaacgaggaaga 1409
Db 1834 TCTTATCTCTTCGGAATTAACG---AAGCTTACGTTAAATTTGGAAGACAGATTCAAC 1890
QY 1410 atcgcgtaggctcagctcagagtttgtctacacatgatacctcgtgataccgaagatc 1469
Db 1891 ATTACCAATGGTGTGCTCGAGACTTTTATCTTCATCAAGACTCAGCGTTTAGATA 1950
QY 1470 attacgcgtgcgtaaaagcgcgaacacatcctcttaagcgaagaatcgcgaagcgtgtt 1529
Db 1951 ATCCACAGATATGAAGAATGATGATATTTGCTGATAAATAATGACACCAAGATC 2010
QY 1530 ggaatttcgggttggcaagcttaigtactataaagacactcacg---tgacaacagca 1586
Db 2011 TCGGATTTTGGGATGGCCAGAAATCTTTCAGAGGACGAGACTGAAGCTTAACACAGGAA 2070
QY 1587 gtccgtggcaccatcgtgtcacatcgtctccagaatatactccaacggaanaatcttcagag 1646
Db 2071 GTGGTGGGAACCTTAGGCTTACATGTCCTCCGAGTAGCGCAATGATGGGGATATCTCGGA 2130
QY 1647 aaacccgacgttttcgatacgaatacgtctcttaagaatacacaagcaagaagct 1706
Db 2131 AATTCAGATGTTTTCAAGTTTTGGAGTCATGTTCTTGAATAATGTTAGTGAAGAAAGAAC 2190
QY 1707 ttgcatactcgtcgtcgtactgaacgacgacgctcgtactgtactgtactgtg-gtgaaga 1765
Db 2191 AGAGGATTTCAACTTGAACACGAGAAACAAATCTTAAAGCTATGATGAGATCACTGG 2250
QY 1766 atgtltgaagagagaagaagctagaagatgttagtgaatccagatctca----- 1813
Db 2251 ACGGAGGGAAGAGCGCTAGAAATGTTGATCCAGTCATCGATGATGATTCATGTCATCTTA 2310
QY 1814 --aacaaactcggagagagaggaacttgaacaagtgtatacaagtggcgctgtcatgacg 1871
Db 2311 CCAGCAACCTTTCAACCAAAAGAGTTCTAAATGATACAAATTTGCTCTGTGTGTT 2370
QY 1872 caaggaatcaccatgaaagaaagcaagaatgtctgaagtgtgaagcgtcggaaagagat 1931
Db 2371 CAAGAGCTGCGAGAGCATAGACCAACGATGTCTCGTGTGTTGATGCTTTGGAAAGTGA 2430
QY 1932 g 1932
Db 2431 G 2431

```

```

RESULT 3
US-07-717-331F-9
; Sequence 9, Application US/07717331F
; Patent No. 5484905
; GENERAL INFORMATION:
; APPLICANT: June Nasrallah, Michael Nasrallah, and Joshua
; APPLICANT: Stein
; TITLE OF INVENTION: A Receptor Protein Kinase Gene
; TITLE OF INVENTION: Encoded At The Self-Incompatibility Locus
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word

```

```

; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07717 331F
; FILING DATE: June 19th 1991
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2571 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; US-07-717-331F-9

```

```

Query Match 4.4%; Score 92.6; DB 1; Length 2571;
Best Local Similarity 49.6%; Pred. No. 3.9e-18;
Matches 323; Conservative 0; Mismatches 319; Indels 9; Gaps 3;

```

```

QY 1110 aacatttggcagaggtgtgttggaaagtctacaaggagcgttgcagcaggaact 1169
Db 1594 AACAAACTCGACAAAGTGTGTTGTGATGTTTACAAAGGGAAGATCTTGACGCGGAA 1653
QY 1170 ctgtgtcgtcaagagacttgaagaagacgaactccagtgtagagctccagttcaa 1229
Db 1654 GAATTTGCAAGTAAAGGCTATCAAAAGAGCTGATTCAGTCAAGGACAGTG---AGTTTATG 1710
QY 1230 acagaagtagagatgataagtagtgcagttcaatcgaaactgttgaagatlaagagtttc 1289
Db 1711 AATGAGTGTACACTAATTCGAGGCTTCAGCATATTAACCTTGTCAAGTCTTGCGCTGT 1770
QY 1290 tglatgacacccgacgagagattgtgtgtatccctacatgccaatggaagtgtgtct 1349
Db 1771 TGCATTTGAAGAGATGAGAGATGTTGATATGAGTATTTGGAAATTTAAAGCTTGAT 1830
QY 1350 tctgtctcagagagagcaccgtcaacaacctcgttgaattggccaacgcggaagaga 1409
Db 1831 TCTTATCTCTTTG---GTAAACCCGAAAGGCTTAGCTAATGGAATGAGAGATTGAC 1887
QY 1410 atcgcgtcgtcgtcagctcgaagttgtgtcttaacctaatgatacgtcgcgaagatc 1469
Db 1888 ATTACCAATGTTGTTGCTCTCGAGGCTTTTATATCTTCATCAAGACTCACGGTTTAGGATA 1947
QY 1470 attcacgcgtgacgtlaaagcagcaacatccctcttagacggaagaattcgaagcgtgtt 1529
Db 1948 ATCCACAGAGATTTGAAAGTAAAGTAACTTTTGTGACAAAATATATATCCCAAGATC 2007
QY 1530 ggaagattcgggttggcaagcttaigtactataaagacactcacg---tgacaacagca 1586
Db 2008 TCGGATTTTGGGATGGCCAGATATTTTGAAGGACGAGAAACGAGACTTAACCAATGAAG 2067
QY 1587 gtccgtggcaccatcgtgtacatcgtctccagaatatactccaacggaanaatcttcgag 1646
Db 2068 GTGGTGGGAACATPAGGCTACATGTCCCGGAATCGCAATGTATGGGATATTCTCGGAA 2127
QY 1647 aaacccgacgttttcgatacgaatacgtctctcagaactaactacacgagcaagaagct 1706
Db 2128 AATTCAGATGTTTCAAGTTTGGAGTCAAGTCTTGAATAATGTTAGTGAAGGAAGAAC 2187
QY 1707 ttgcatactcgtcgtcgtactgaacgagcagcagcgtcatgttaacttgaactg 1757
Db 2188 AGAGATTTCTCAACACTTGAGTACGAAACGATCTCTTAAGCTATGTATGG 2238

```

```

RESULT 4
US-07-717-331F-1
; Sequence 1, Application US/07717331F
; Patent No. 5484905

```

```

GENERAL INFORMATION:
APPLICANT: June Nasrallah; Michael Nasrallah; and Joshua
APPLICANT: Stein
TITLE OF INVENTION: A Receptor Protein Kinase Gene
TITLE OF INVENTION: Encoded At The Self-Incompatibility Locus
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Yahwak & Associates
STREET: 25 Skytop Drive
CITY: Trumbull
STATE: Connecticut
COUNTRY: USA
ZIP: 06611
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Disk
COMPUTER: Macintosh
OPERATING SYSTEM: MS-DOS
SOFTWARE: Microsoft Word
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/717,331F
FILING DATE: June 19th 1991
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: George M. Yahwak
REGISTRATION NUMBER: 26,824
TELEPHONE: (203)268-1951
TELEFAX: (203)268-1951
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2833 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-07-717-331F-1

```

```

Query Match          4.4%; Score 92.6; DB 1; Length 2833;
Best Local Similarity 49.6%; Pred. No. 4.1e-18;
Matches 323; Conservative 0; Mismatches 319; Indels 9; Gaps 3;

```

```

QY 1110 aacatttggcagagtggtgttgggaaagctacaaaggagcgttggcagcgaagc 1169
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1594 AACAAATCGACAGAGTGTTGATGATGTTTACAGGAGAGATTACTGACGGGAA 1653
QY 1170 ctgtgtctgtcaagagactgaaggaagcgaactccaggtggaagctccagttcaa 1229
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1654 GAATTCAGCTAAAGGCTATCAAGACGCTCAGTTCAGAGGACTGATG--AGTTTATG 1710
QY 1230 aacgaagtagagtagtaagtagtcagcttcacgaacactgttgatgagagtttc 1289
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1711 AATGAGGTGACCTAATTGGAGGCTTCAGCATATTAACCTTGTCAAGTTCTTGCTGT 1770
QY 1290 tglatgacacgcgacgagattgtctgtatccctacatggtgccaatggaatgtgtct 1349
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1771 TGCATTAGAGAGATGAGAGATGTTGATATATGAGATTTGAAATTTAAACCTTGAT 1830
QY 1350 tctgtgtctcagagagagccacgctcaaacctccgctgtgattggccaacgcggaagaga 1409
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1831 TCTATCTCTTTG--GTAAACCCGAAAGGCTTAAGCTTAATGGAATGAGATTCGAC 1887
QY 1410 atgcgcgttagcctcagctcaggttgtcttacctacatgactcgcgcgacccgaagatc 1469
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1888 AATACCAATGCTGTCTCAGAGGCTTTTATATCTTCATCAACACTCAGCGTTTAGGATA 1947
QY 1470 attcaccgtgacgtlaaagacagcaaacatccctcttagacgaagaattcgaagcgtgtgtc 1529
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1948 ATCCACAGAGATTGTAAGTAAGTAACATTTTGTGCTTGACAAAATATGATCCCAAGATC 2007
QY 1530 ggaagattcgggttgcaaaagctatgactatataaagacatcag--tgacaacagca 1586
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 2008 TCGATTTTGGGATGGCCAGGATATTTGAAAGGAGCAGAAACGGAAGCTTAACACATGAA 2067

```

```

QY 1587 gtcgtgacaccatcgtccacatcgtctccagatatctctcaaccggaaaaattcgaag 1646
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 2068 GTGTGGAACATPACGTACATGTCCCGAATPACCAATGTATGGATATTTCTCGGA 2127
QY 1647 aaaccgacgttttcggatagcaatcgtctctagaactaatcacagagaagact 1706
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 2128 AATACAGATGTTTTCAGTTTGGAGTCACTACTGTGAATTTGTAGTGGAACAGAAC 2187
QY 1707 ttcgactcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgt 1757
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 2188 AGAGGATTTCTACAACTTGACTGACGAAACGATCTCCTAACCTATGATG 2238

```

```

RESULT 5
US-07-717-331F-4
Sequence 4, Application US/07717331F
Patent No. 5484905
GENERAL INFORMATION:

```

```

APPLICANT: June Nasrallah; Michael Nasrallah; and Joshua
APPLICANT: Stein
TITLE OF INVENTION: A Receptor Protein Kinase Gene
TITLE OF INVENTION: Encoded At The Self-Incompatibility Locus
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Yahwak & Associates
STREET: 25 Skytop Drive
CITY: Trumbull
STATE: Connecticut
COUNTRY: USA
ZIP: 06611
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Disk
COMPUTER: Macintosh
OPERATING SYSTEM: MS-DOS
SOFTWARE: Microsoft Word
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/717,331F
FILING DATE: June 19th 1991
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: George M. Yahwak
REGISTRATION NUMBER: 26,824
TELECOMMUNICATION INFORMATION:
TELEPHONE: (203)268-1951
TELEFAX: (203)268-1951
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 2749 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-07-717-331F-4

```

```

Query Match          4.4%; Score 92; DB 1; Length 2749;
Best Local Similarity 50.7%; Pred. No. 6.2e-18;
Matches 302; Conservative 0; Mismatches 285; Indels 9; Gaps 3;

```

```

QY 1110 aacatttggcagagtggtgttgggaaagctacaaaggagcgttggcagcgaagc 1169
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1612 AACAAAGTCGGAAGAGGCTTTGATGATGTTTACAGGAGAGATTACTGACGGGAA 1671
QY 1170 ctgtgtctgtcaagagactgaaggaagcgaactccaggtggaagctccagttcaa 1229
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1672 GAATTCAGCTAAGAGAGATATCGAATATGCTCAAGGTACCGATG--AGTTCAATG 1278
QY 1230 aacgaagtagagtagtaagtagtcagcttcgaacactgttgagtagtaagagtttc 1289
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1729 AACGAGATTAGCTAATGCAAAAGCTTCAGCCACATTAATCTTGTCCGACTTCTTGCTGT 1788
QY 1290 tglatgacacgcgacgagagattgtctgtatccctacatggtgccaatggaatgtgtct 1349

```

Db 1789 TGTGTTATGAGGCGAGAGATCTTAAATTAGAGTACTTGAGATCTAAAGCTTCGAT 1848
QY 1350 tctgtctcagagagagagccacgcctcacaactccgttgattggccaagcggaagaga 1409
Db 1849 TCTCATCTCTTTGA---TGAACCCAGAAAGCTGTATGTTAAATGGCAAAAGAGATTTGAT 1905
QY 1410 atcgcgctagcctcagctcaggttgcttacctacatgatcactgcgcgaatccgaagatc 1469
Db 1906 ATTATCATATGTTATGCGCCAGAGGCTTCTTATCTTACCAAGATTCACGCTTTAGATATC 1965
QY 1470 attcaccgtgacgtaaaagacagacatcctctcttagacgaagattcgaaagcggttgtt 1529
Db 1966 ATCCACAGGGATTTGAAGAGCAACAAATGCTTCTGATTAAGATATGACTCCAAAAT 2025
QY 1530 ggaagattcggttgcaaaagctttagactataaagacacta---cgtgacaacagca 1586
Db 2026 TCAGACTTTGGAAATGGCTAGATCTTTGGAGGATGAGACGAGACCTGACAGAGGAAG 2085
QY 1587 gtccgtggaccatcgctcagctcaggaatctctcacaacggaatcttcgaag 1646
Db 2086 GTGCTCGAATCTTATGCTATGCTATGCTCAGAAATATGCGATGAACGGGACATTCTCAATG 2145
QY 1647 aaaaaccgacttctcgatatacgaatcatgctcttagaactatacgaagacaag 1702
Db 2146 AAGTCACATGCTTCAAGTTTGGGGTCTTCTTCAATTAATAGTGGCAAGAG 2201

RESULT 6
US-08-473-553A-1
; Sequence 1, Application US/08473553A
; Patent No. 5859338
; GENERAL INFORMATION:
; APPLICANT: Meyerowitz, Elliot M.
; APPLICANT: Clark, Steven E.
; APPLICANT: Williams, Robert W.
; TITLE OF INVENTION: Plant Clavatal Nucleic Acids,
; TITLE OF INVENTION: Transformed Plants, and Proteins
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Flehr, Hohbach, Test, Albritton & Herbert
; STREET: Four Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: California
; COUNTRY: United States
; ZIP: 94111-4187
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/473,553A
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: Silva, Robin M.
; REGISTRATION NUMBER: 38,304
; REFERENCE/DOCKET NUMBER: A-60886/RFT/RMS
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 781-1989
; TELEFAX: (415) 398-3249
; TELEX: 910 277299
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5733 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 2434..5037

; FEATURE:
; NAME/KEY: CDS
; LOCATION: 5117..5467
; US-08-473-553A-1

Query Match 3.9%; Score 81; DB 2; Length 5733;
Best Local Similarity 49.9%; Pred. No. 2.4e-14;
Matches 235; Conservative 0; Mismatches 230; Indels 6; Gaps 1;

QY 1092 gatgggttagtaacagaacacatttggcagaggttggttgggaagattcacaagga 1151
Db 4516 GAGTGCTTAAAGAGAGACATATTCGTTAAAGCGGACATGGAATCTCTACCGTGA 4575
QY 1152 cgttggcagacggaactcttctgtcgtcgaagactgaaggaagagcgaactcaggt 1211
Db 4576 TCAATGCCAAACAGCTATGACGCTCCGATTAACCACTCTGTGGCGCTGGGACGAGG 4635
QY 1212 ggaagctccagttcacaacagaagtagatgataatgatgcaactcaccgaagctg 1271
Db 4636 ACGCATCATGATTTACAGCGCGAGATTCAAACTTTGGGAGACATCCGCCACCTCACATA 4695
QY 1272 ttgagattacagaggttctctgtatgacaccgacgagagatgtgtgtatccttaca 1331
Db 4696 GTGAGACTTCTTGTTAGCTAGCGAACAAGATACGATATCTCTTTATGAGTACATG 4755
QY 1332 gccaatggaagtgtgtctgtctgtctcagagagagacacgctcacaactccgttgat 1391
Db 4756 CCTAATGGAAGCCTTGAGAGGCTTTTGATG-----ATCTAAAGCTGTCATCTTCA 4809
QY 1392 tggcaacgcggaagaaatcgctgcttagctcagctcaggttcttacctacatgat 1451
Db 4810 TGGGAGACGACATAGACTAGCCGTGGAAGCTGGAAGGGCTGTGTATCTTCACCAT 4869
QY 1452 cactgcgatacgaagaatcattcaccgtgacgtaaaagacgaacatcctctagaagaa 1511
Db 4870 GATTGTTCCACATGATCTTGATGATGATGATGATGATGATGATGATGATGATGATG 4929
QY 1512 gaattcgaagcgttctgttggaattcgggttggaagctttagactat 1562
Db 4930 GATTTTGAAGCCCATGTTGCTGATTTTGGCTTCTTAAGTTCTTATGTTGAT 4980

RESULT 7
US-08-447-185-2
; Sequence 2, Application US/08447185
; Patent No. 5648599
; GENERAL INFORMATION:
; APPLICANT: Tanksley, Steven D.
; APPLICANT: Martin, Gregory B.
; TITLE OF INVENTION: GENE CONFERRING DISEASE RESISTANCE
; TITLE OF INVENTION: TO PLANTS BY RESPONDING TO AN AVIRULENCE GENE IN PLANT PATH
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Michael L. Goldman
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/447,185
; FILING DATE:
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/111,078
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:

```

? NAME: Goldman M., Michael L.
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (716)263-1000
? TELEFAX: (716)-263-1600
? INFORMATION FOR SEQ. ID NO.: 2:
?
? SEQUENCE CHARACTERISTICS:
? LENGTH: 966 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: double
? TOPOLOGY: unknown
? MOLECULE TYPE: DNA (genomic)
?
US-08-447-185-2

```

Query Match	3.88;	Score 80;	DB 1;	Length 966;
Best Local Similarity	49.08;	Pred. No. 1.4e-14;		
Matches 308; Conservative	0;	Mismatches 305;	Indels 15;	Gaps 3

[illegible]

```

RESULT      8
US-08-447-185-3
; Sequence 3, Application US/08447185
; Patent No. 5648599
;
; GENERAL INFORMATION:
;
; APPLICANT: Tanksley, Steven D.
; APPLICANT: Martin, Gregory B.
; TITLE OF INVENTION: GENE CONFERRING DISEASE RESISTANCE
; TITLE OF INVENTION: TO PLANTS BY RESPONDING TO AN AVIRULENCE GENE IN PLANT PATHOGEN
; NUMBER OF SEQUENCES: 5

```

```

1  CORRESPONDENCE ADDRESS:
2  ADDRESSEE: Michael L. Goldman
3  STREET: Clinton Square, P.O. Box 1051
4  CITY: Rochester
5  STATE: New York
6  COUNTRY: U.S.A.
7  ZIP: 14603
8
9  COMPUTER READABLE FORM:
10 MEDIUM TYPE: Floppy disk
11 COMPUTER: IBM PC compatible
12 OPERATING SYSTEM: PC-DOS/MS-DOS
13 SOFTWARE: Patent In Release #1.0, Version #1.25
14 CURRENT APPLICATION DATA:
15 APPLICATION NUMBER: US/08/447,185
16 FILING DATE:
17 CLASSIFICATION: 800
18 PRIOR APPLICATION DATA:
19 APPLICATION NUMBER: US/08/111,078
20 FILING DATE:
21 ATTORNEY/AGENT INFORMATION:
22 NAME: Goldman M., Michael L.
23 TELECOMMUNICATION INFORMATION:
24 TELEPHONE: (716)263-1000
25 TELEFAX: (716)-263-1600
26 INFORMATION FOR SEQ. ID NO.: 3:
27 SEQUENCE CHARACTERISTICS:
28 LENGTH: 2443 base pairs
29 TYPE: nucleic acid
30 STRANDEDNESS: double
31 TOPOLOGY: unknown
32 MOLECULE TYPE: DNA (genomic)
33
34 US-08-447-185-3

```

Query Match	3.88;	Score 80;	DB 1;	Length 2443;
Best Local Similarity	49.08;	Pred. No. 2.7e-14;		
Matches 308; Conservative	0;	Mismatches 305;	Indels 15;	Gaps 3;

QY	1063	ttctcttgcgagagcctcaacgaattgcagatgabatggcttttgaatacaagaacatccttgcgaca	11222
Db	149	TTCTCTTTAGTAGAATTTGGAGGAAGCAACTAATAATTTTATCATCAACAGTTTTTAATTGGAC	208
QY	1123	gaagtggatttgggaagaagctacaagaagacgcttgcagacggaacctcttgtctgtlca	11822
Db	209	ATGGTCTCTTTGGGAAGGTTTACAAAGGGTGTGTTGGCTATGAGCAAAAGTGCGCCGCA	268
QY	1183	agagactcgaagaagaagacgacacctcgaagtgcggaagctccagcttcaaacagaagaataga	12422
Db	269	AAAGGCGTACACCTGAGTCCCTCCACAAAGGATATTGAAAG---AGTTCCAAACAGAAATTGAGA	325
QY	1243	tgaataagatgacagttacatcgaaacctgttgaagattacagagttctgtatgacaaccga	13022
Db	326	CTCTCTCTATTTTGCAGACATCCGCACTCGTTTCATTTGATAGAAATCTGTGATGAAGAA	385
QY	1303	ccgagagattgccttgttgcattccctacatgatgcgaatggaaagtgtgcttcgttcgcagag	13622
Db	386	ATGAGATGATTTCTAATTTTAATAATTAATGAGAGATGGAAGACTCAAGACACTTTGTATG	445
QY	1363	agagagccaccgctacaacacctcgcttgatttggccaaacggaagaagaatcgcgcctgaagct	14222
Db	446	GATCAGATCTAACCCACAATATGACGATGAGCTGAGGAGACAGAGCGCTGGAGATATGCAAGGCG	505
QY	1423	caagctcgagattgtcttctacatacatgatcatcactgcatcctcgaagctatcatccgttgcg	14822
Db	506	CAGCGCAAGGTCTACACTACTCTTCATCACTAGAGCA-----ATTATTAATCTGTATG	556
QY	1483	taaaagcagcaaacactccctcttgaacgaagaatctcgaaacggttgcagagattctcgagtl	15422
Db	557	TCAAGTCTATAAACATATTGCTGTGATGAGAAATTTTGTGCCAAAAATTTACTGATTTTGGAA	616
QY	1543	tgcgcaag---cttatgactataaagacactacgctgacaacagcagtlccgtygcacca	1599
Db	617	TATTCACGAAGAAGGACTGAGCTGTGATCAACACCACATTTAGCACTACGATGTGAAGAAGATCTC	676


```

; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: join(1..2676, 3520..3918)
; OTHER INFORMATION: /product= "Xa-21"
US-08-587-680A-3

Query Match          3.5%; Score 73.8; DB 2; Length 3921;
Best Local Similarity 54.6%; Pred. No. 3e-12;
Matches 147; Conservative 0; Mismatches 122; Indels 0; Gaps 0;

QY 483 tatttgagccttacagtaacacataactgcccagatccctgaatcttggaaatcgt 542
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 1138 TTTCTTGCACTTGAAATTGAATAGATCAGACAGAGCAATTCGAGATTTGGCAATCTT 1197
    543 acaactagtgtgagtttgatcttacttaaacagctctccggtctcctatccggaatca 602
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 1198 ATTGGCTTACAAACATCTCTATCTCTGCAACACAAATTTGAGAGGCTCTTCCATCATCG 1257
    QY 603 ttgggaagccttcaagctgagattctccggtcttaacacacagcttcactggtga 662
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 1258 TTGGCAGAGCTTAAACCTTAGCATTTACTCGCCTACGAAACAACTTGAAGCGGTTGCG 1317
    QY 663 attcctatgtcactgacacataattactacccttcaagtgttgaatcatcaataacaga 722
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 1318 ATCCCGTTGGCCATAGCAATCTTACTGAACTTAATATCTTACTGCGGACCAACANAA 1377
    QY 723 ctctcgtgtcagttcctcgacaatggtc 751
    ||||| ||||| ||||| ||||| |||||
DB 1378 TTCAGTGGTTGGATACCATACACACTCTC 1406

RESULT 11
US-08-475-891A-3
; Sequence 3, Application US/08475891A
; Patent No. 5859339
; GENERAL INFORMATION:
; APPLICANT: Ronald, Pamela C.
; APPLICANT: Wang, Guo-Liang
; APPLICANT: Song, Wen-Yuang
; TITLE OF INVENTION: Procedures and Materials for Conferring
; TITLE OF INVENTION: Disease Resistance in Plants
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/475,891A
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/373,375
; FILING DATE: 17-JAN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Bastian, Kevin L.
; REGISTRATION NUMBER: 34,774
; REFERENCE/DOCKET NUMBER: 02370-058910US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5992 base pairs
```

```

; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: join(512..3149, 3993..4393)
; OTHER INFORMATION: /product= "RRK-B"
; OTHER INFORMATION: /note= "Xa21 Xanthomonas spp. disease
; OTHER INFORMATION: resistance gene RRK-B from rice (Oryza
; OTHER INFORMATION: sativa)"
US-08-475-891A-3

Query Match          3.5%; Score 73.8; DB 2; Length 5992;
Best Local Similarity 54.6%; Pred. No. 3.9e-12;
Matches 147; Conservative 0; Mismatches 122; Indels 0; Gaps 0;

QY 483 tatttgagccttacagtaacacataactgcccagatccctgaatcttggaaatcgt 542
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 1649 TTTCTTGCACTTGAAATTGAATAGATCAGACAGAGCAATTCGAGATTTGGCAATCTT 1708
    543 acaactagtgtgagtttgatcttacttaaacagctctccggtctcctatccggaatca 602
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 1709 ATTGGCTTACAAACATCTCTATCTCTGCAACAAATTTGAGAGGCTCTTCCATCATCG 1768
    QY 603 ttgggaagccttcaagctgagattctccggtcttaacacacagcttcactggtga 662
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 1769 TTGGCAGAGCTTAAACCTTAGCATTTACTCGCCTACGAAACAACTTGAAGCGGTTGCG 1828
    QY 663 attcctatgtcactgacacataattactacccttcaagtgttgaatcatcaataacaga 722
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 1829 ATCCCGTTGGCCATAGCAATCTTACTGAACTTAATATCTTACTGCGGACCAACANAA 1888
    QY 723 ctctcgtgtcagttcctcgacaatggtc 751
    ||||| ||||| ||||| ||||| |||||
DB 1889 TTCAGTGGTTGGATACCATACACACTCTC 1917

RESULT 12
US-08-475-891A-1
; Sequence 1, Application US/08475891A
; Patent No. 5859339
; GENERAL INFORMATION:
; APPLICANT: Ronald, Pamela C.
; APPLICANT: Wang, Guo-Liang
; APPLICANT: Song, Wen-Yuang
; TITLE OF INVENTION: Procedures and Materials for Conferring
; TITLE OF INVENTION: Disease Resistance in Plants
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/475,891A
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/373,375
; FILING DATE: 17-JAN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Bastian, Kevin L.
; REGISTRATION NUMBER: 34,774
; REFERENCE/DOCKET NUMBER: 02370-058910US
```



```
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 6256 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
MOLECULE TYPE: linear
TOPOLOGY: linear
FEATURE:
NAME/KEY: CDS
LOCATION: join(1648..4383, 5178..5513)
OTHER INFORMATION: /product="RRK-F"
OTHER INFORMATION: /note="Xa21 Xanthomonas spp. disease
OTHER INFORMATION: resistance gene RRK-F from rice (Oryza
OTHER INFORMATION: sativa)"
US-08-475-891A-1
```

```
Query Match 3.4%; Score 70.6; DB 2; Length 6256;
Best Local Similarity 53.9%; Pred. No. 3.9e-11;
Matches 145; Conservative 0; Mismatches 124; Indels 0; Gaps 0;
```

```
QY 483 tatttgagagcttaccagtaacaacactgagcccgattcctagtaacttggaatctg 542
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 2806 TTCTTGCACTTGATTGTAATAGATCAGAGAGCATTTCCAAAGATATTGGCAATCTT 2865
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 543 acaacttagtgagtttgatcttacttaaacagcttcgcggtccatccggaatca 602
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 2866 ATTGCTTACACATCTCATCTCTGCAACAACATTTCAAGAGGCTCACTTCATCATCG 2925
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 603 ttgggaagctttcaagctgagatttctcgcggttaacaacagcttcaactgggtca 662
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 2926 TTGGGAGGCTTAGAAGCTTAGGCAATCTAGTCCCTTAGGAACACTTGAGCGGTTCG 2985
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 663 attcctatgctacgtaccataatactaccctcaagtggttagatactcaataacaga 722
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 2986 ATCCCATTTGGCATAGGAATCTTACTGACTTATATCTTACGTCTGGCAGCACACAAA 3045
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 723 ctctctggttcagttcctcgacaatgctc 751
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 3046 TTCAGTGTGGATACCATACACTCTC 3074
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
```

```
Result 13
US-08-567-375-1
Sequence 1, Application US/08567375
Patent No. 5952485
GENERAL INFORMATION:
APPLICANT: Ronald, Pamela C.
APPLICANT: Wang, Guo-Liang
APPLICANT: Song, Wen-Yuang
APPLICANT: Szabo, Veronique
TITLE OF INVENTION: Procedures and Materials for Confering
TITLE OF INVENTION: Disease Resistance in Plants
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/567,375
FILING DATE: 04-DEC-1995
CLASSIFICATION: 800
```

```
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/004,645
FILING DATE: 29-SEP-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/475,891
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/373,375
FILING DATE: 17-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Bastian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 023070-058930
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 6256 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
MOLECULE TYPE: linear
TOPOLOGY: linear
FEATURE:
NAME/KEY: CDS
LOCATION: join(1648..4383, 5178..5513)
OTHER INFORMATION: /product="RRK-F"
OTHER INFORMATION: /note="Xa21 Xanthomonas spp. disease
OTHER INFORMATION: resistance gene RRK-F from rice
OTHER INFORMATION: (Oryza sativa)"
US-08-567-375-1
```

```
Query Match 3.4%; Score 70.6; DB 2; Length 6256;
Best Local Similarity 53.9%; Pred. No. 3.9e-11;
Matches 145; Conservative 0; Mismatches 124; Indels 0; Gaps 0;
```

```
QY 483 tatttgagagcttaccagtaacaacactgagcccgattcctagtaacttggaatctg 542
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 2806 TTCTTGCACTTGATTGTAATAGATCAGAGAGCATTTCCAAAGATATTGGCAATCTT 2865
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 543 acaacttagtgagtttgatcttacttaaacagcttcgcggtccatccggaatca 602
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 2866 ATTGCTTACACATCTCATCTCTGCAACAACATTTCAAGAGGCTCACTTCATCATCG 2925
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 603 ttgggaagctttcaagctgagatttctcgcggttaacaacagcttcaactgggtca 662
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 2926 TTGGGAGGCTTAGAAGCTTAGGCAATCTAGTCCCTTAGGAACACTTGAGCGGTTCG 2985
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 663 attcctatgctacgtaccataatactaccctcaagtggttagatactcaataacaga 722
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 2986 ATCCCATTTGGCATAGGAATCTTACTGACTTATATCTTACGTCTGGCAGCACACAAA 3045
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 723 ctctctggttcagttcctcgacaatgctc 751
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 3046 TTCAGTGTGGATACCATACACTCTC 3074
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
```

```
Result 14
US-08-587-680A-1
Sequence 1, Application US/08587680A
Patent No. 5977434
GENERAL INFORMATION:
APPLICANT: Ronald, Pamela C.
APPLICANT: Wang, Guo-Liang
APPLICANT: Song, Wen-Yuang
APPLICANT: Szabo, Veronique
TITLE OF INVENTION: Procedures and Materials for Confering
TITLE OF INVENTION: Disease Resistance in Plants
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
```

CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/587,680A
FILING DATE: 17-JAN-1996
CLASSIFICATION: 800
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/373,375
FILING DATE: 17-JAN-1995
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/475,891
FILING DATE: 07-JUN-1995
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 60/004,645
FILING DATE: 29-SEP-1995
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/567,375
FILING DATE: 04-DEC-1995
ATTORNEY/AGENT INFORMATION:
NAME: Bastian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 023070-058940US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 6256 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: CDS
LOCATION: join(1648..4383, 5178..5513)
OTHER INFORMATION: /product= "RRK-F"
OTHER INFORMATION: /note= "Xa21 Xanthomonas spp. disease
OTHER INFORMATION: resistance gene RRK-F from rice (Oryza
OTHER INFORMATION: sativa)"
US-08-587-680A-1

Query Match 3.4%; Score 70.6; DB 2; Length 6256;
Best Local Similarity 53.9%; Pred. No. 3.9e-11;
Matches 145; Conservative 0; Mismatches 124; Indels 0; Gaps 0;
QY 483 tatttgagcttaccagtaacaataactgcccgaattccctagtaattcttggaatctg 542
DB 2806 TTCTCTGACATTGATTGAATTAAGATCAAGAGCATTCACAAAGATTATTCGAATCTT 2865
QY 543 acaactagtgaagtttggaattacttaaacagcttcccggttccatttcggaatca 602
DB 2866 ATTGCGCTTACAACTCTCTCTCTGACAGCAACAAATTTCAGAGGTCACCTTCATCTCG 2925
QY 603 ttgggaagcttcaagcctgagattctccggttcaacaacaagcttcaactggtca 662
DB 2926 TTGGGACAGCTTAAACCTTAGGCATTCTAGTCGCCCTACGAAACAACTTGAGGGTTTCG 2985
QY 663 attctatgtctacagcaatatactacccttcaagtgtagatctatacaataacaga 722
DB 2986 ATCCCATTTGGCCATTAGAGAAATCTTAGCACTTAATTAATTACTGCTGCGACCAACAA 3045
QY 723 ctctctgtcagttctctgacaatgctc 751
DB 3046 TTCAAGTGTGATGATACCATACACACTCTC 3074

RESULT 15
US-08-030-096-5/c
Sequence 5, Application US/08030096
Patent No. 5426041
GENERAL INFORMATION:
APPLICANT: Fabijanski, Steven F.
TITLE OF INVENTION: BINARY CRYPTOCYTOTOXIC METHOD OF HYBRID
TITLE OF INVENTION: SEED PRODUCTION
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 3000 K Street, N.W., Suite 500
CITY: Washington, D.C.
COUNTRY: USA
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/030,096
FILING DATE: 22-MAR-1993
CLASSIFICATION: 800
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 07/556,917
FILING DATE: 20-JUL-1990
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: PCT/CA91/00255
FILING DATE: 22-JUL-1991
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 33229/164/P1HI
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)672-5300
TELEFAX: (202)672-5399
TELEX: 904136
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 3641 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: CDS
LOCATION: join(854..1105, 1266..2375, 2463..2779)
US-08-030-096-5
Query Match 3.3%; Score 68; DB 1; Length 3641;
Best Local Similarity 51.5%; Pred. No. 1.7e-10;
Matches 235; Conservative 0; Mismatches 210; Indels 11; Gaps 3;
QY 1504 tagacgaagaattcggaagcgttggttgagatttcggttgcaagcttaagagactata 1563
DB 3639 TAGACCAAGACTTTCACAGCAGCGGCTTCGGACTTCGATATGCAAGGCTGGAGACGCTC 3580
QY 1564 aagacactcaagtggaacaaga--gtccgttgacacatcgtgtcaatcgtccagaata 1621
DB 3579 TGACACAGCATTTGACGCGTACACAGCGTCCCGGGAAGTCCCGGTTAGGTTCCGACAGAT 3520
QY 1622 tctctcaacgggaatcttcagagagaacacgaagcttccggtatcgaatcgaatcgtctc 1681
DB 3519 TTACCGAGATTTCAGGTGACGACGACCAAGAGATGTATACCTAGGCGTTATCTTCT 3460
QY 1682 agaacatcaacaggaacagagcttgatcgttcggttagcttaacgaacgaagcgt 1741
DB 3459 GGAGCTTCTCGGGGAGAGAAACCGATGATCCAGAGGAGATTGGTGAAGACAAACATCT 3400

Qy	1742	caftactctgcagggtgaagaagatgltgtgagagaaagaagctgaagatgltga	1801
Db	3399	CCTG-----GAGTGGGCTTAACAGCTTTATATAGGAGATTAAGAGCTGAGATTCTTGA	3346
Qy	1802	tccagatcttccaac---aaactacgagagagagagactcgagacaagltgatacaagltgc	1858
Db	3345	TTGCGACCTGATTAACGTGAGAAATCTGTGGCAGCTGAGCTGTTTCAATTACTTGAAAGATTGC	3286
Qy	1859	gtgtcattgcagcgaagatccaaatcgtgaagaagccaagaatgltctgaagtgtgaagat	1918
Db	3285	GTCACAGTGTCTGGACGATCGACCGTTCAAAAGACCACAACTAATGATTCAAGTAATGGCGAT	3226
Qy	1919	gctgaaagagatgagggcttcgagaaatgagcgaca	1954
Db	3225	GTTCAAAAGATTGTCTCAGTCCATTCACAGAAATGA	3190

Search completed: January 15, 2001, 20:49:58
Job time: 7574 sec

